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W. H. Tracy, Jr.

Annual
Catalogue
1913

**D. A. WHITE
& SONS**

SALEM, - - ORE.

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PARCELS POST

Parcels post only applies to seeds, bulbs, etc., as follows; Allows a total weight of 11 pounds at the old rate of 8 cents per pound, any distance.

D. A. WHITE & SONS

TWENTY-SECOND ANNUAL
OFFERING OF RELIABLE

SEEDS, POULTRY AND BEE SUPPLIES



OUR NEW STORE

251-261 STATE ST.

SALEM, OREGON

THIS SEASON finds us in our new location, better prepared than ever to take care of your valued orders. We have recently built a new building especially adapted to our business and now have the best arranged store in our line in the state. The building has been constructed and the interior arranged so that everything can be handled at minimum cost of expense. This makes it possible for us to handle your business more satisfactorily to you and ourselves, and allows us to handle on a lower margin than formerly, you getting the benefit of that advantage by trading with us.

Our stock this season has been selected with great care and we believe that we have secured the best that the market affords in all lines.

We thank you for your esteemed patronage the past season, and trusting that the same friendly spirit may continue, we remain,

Sincerely and gratefully,

D. A. WHITE & SONS

GRAIN AND SEED CLEANING

Old style farming is going out of fashion, as it is proving unprofitable. The habit of sowing grain or seeds just as it is harvested, weed seed and all, was one of the worst habits of many farmers.

They are finding that to produce the best results they must sow the best seeds that can be obtained and that means seed that is re-cleaned in first-class shape; all the weed seed and foreign seeds being removed from the grain or seeds that they intend to sow.

In order to take proper care of those who desire the best results we have installed a first-class power cleaner.

We reclean all the seeds and seed grain we sell; also do cleaning for anyone who has their own grain or seeds and desire to have them re-cleaned before seeding.

Our charges are reasonable and we guarantee the quality of our work.

GRAIN ROLLING AND CHOPPING

Farmers and feeders generally find it far more economical to roll all grain before feeding.

All stock will do better, and it is a large saving in feed, as it does not take over 75 per cent as much as in the whole grain.

We have installed a large roller and are prepared to take care of your custom work in first-class shape and on short notice.

Our mill is equipped with a large suction fan and cleans the grain before it is rolled so that your stock gets the clean feed and not the dust and dirt as from the usual milling process.

You will find our prices as low as first-class work may be done for.

IMPORTANT INSTRUCTIONS

How to Send Money. Remittances should be made by Post Office or Express Money Order, Bank Draft or Registered Letter. Postage Stamps will be received for small amounts. Remittance in any other way at sender's risk.

Be Sure to Sign Your Name and give Post Office and State. And to avoid mistakes, do not write letters on same sheet with order.

Seeds Postpaid by Mail. We can send all vegetable and flower seeds in quantities of one pound or less by mail, postpaid, to any office in the United States at the price named in this catalogue, unless otherwise stated.

Prepay Stations. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always where there is no regular agent.

Large Orders. Any dealer, market gardener, institution or individual, wishing seed in large quantities is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market price. **A letter of inquiry may save you dollars** if you want to buy in quantity.

New postage rates—see inside front cover.

WHITE'S SELECTED TESTED VEGETABLE SEEDS

DISCLAIMER

We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses sell subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.—We give no warranty, express or implied, as to the description, quality, productiveness or any other matter of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

D. A. WHITE & SONS.

ASPARAGUS

Conover's Colossal. One of the best varieties. Quality first class. Pkt. 5c, oz. 10c; lb. 80c; postpaid.

BEANS

If wanted by mail, add 10c per lb. for postage.

DWARF OR BUSH—GREEN PODDED

Stringless Green Podded. Without doubt the best green-podded variety on the market. Is very early; pods are long, rather round, very fleshy. Fine for market and home garden. Lb. 15c; 10 lbs. \$1.35.

Extra Early Red Valentine. A popular variety. Erect vine; pods of medium length, fleshy and with only slight strings. Lb. 15c; 10 lbs. \$1.15.

Dwarf Horticultural. A very vigorous variety; used as green shelled as well as a string or dry bean. Pods medium length. Lb. 15c; 10 lbs. \$1.15.

Extra Early Refugee. A very early variety with medium-sized pods; fleshy and cooks tender and nice. Lb. 15c; 10 lbs. \$1.15.

Castor Bean. Used for medicinal purposes, and claimed to keep moles away. Lb. 25c.

WAX-PODDED BUSH BEANS

Davis White Wax. Rustless and very productive; hardy and one of the best for market gardeners. The dried bean is kidney shaped, clear white and a favorite for baking and canning. Lb. 15c; 10 lbs. \$1.35.

Golden Wax. One of the most popular garden varieties in cultivation. Pods are long and a beautiful golden-yellow, crisp and tender. Lb. 15c; 10 lbs. \$1.25.

Challenge Black Wax. The earliest of all wax beans. Excellent quality and very productive. Lb. 15c; 10 lbs. \$1.25.

German Black Wax. Very vigorous and a heavy yielder. Pods fairly long, golden-yellow, very brittle and stringless. Lb. 15c; 10 lbs. \$1.25.

POLE BEANS—GREEN AND WAX PODDED

Kentucky Wonder, or Asparagus. The most popular of the pole beans for both garden and market. It grows luxuriantly and bears for a long time. Fine for table and canning. Pods are very long, very fleshy and deeply creased; green in color and stringless. Lb. 15c; 10 lbs. \$1.25.

Kentucky Wonder Wax. An excellent variety, and one of the best pole beans. Pods are long, very thick, entirely stringless and a bright yellow in color. Lb. 15c; 10 lbs. \$1.40.

Horticultural. An old favorite. Pods short, pale green, splashed with red. Used green or dry shelled. Lb. 15c; 10 lbs. \$1.25.

Lazy Wife. A green-podded variety bearing long pods in clusters. Stringless and of fine flavor. Lb. 15c; 10 lbs. \$1.25.

White Dutch Case Knife. A climbing variety with long flat pods which become creamy white as they mature. Lb. 15c; 10 lbs. \$1.25.

White Creaseback. An early green-podded variety; pods five to six inches long, deeply creased and borne in clusters; very fleshy and stringless. Beans white and can be used as a dry bean in winter. Lb. 15c; 10 lbs. \$1.25.

Scarlet Runner. The well-known and old-fashioned climber; bright scarlet flowers; also used as a shell bean. Lb. 25c.

LIMA BEANS

Burpee's Bush. The best dwarf variety. Very prolific. Pods and beans large; fine for green shelled. Lb. 15c; 10 lbs. \$1.25.

Large White Lima. A good variety of the pole kind. Is very prolific and of good quality. Lb. 15c; 10 lbs. \$1.25.

Early Leviathan. One of the newer varieties and the very best pole variety. Vine very tall and strong; pods long and borne in clusters; beans large and white; is early and prolific. Lb. 15c.

Fordhook Bush. One of the finest Lima Beans on the market. Grows about 22 inches high and yields good. Lb. 15c.

FIELD BEANS

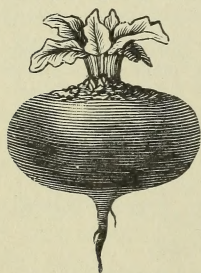
Royal Dwarf Kidney. This bean is large, long and slightly curved, and pure white; it yields a heavy crop and is one of the very best either green shelled or dry. Lb. 15c; 10 lbs. \$1.10.

Lady Washington. This small white bean is a great improvement over the old navy bean; a heavy yielder and suitable for this climate. Lb. 15c; 10 lbs. \$1.00.

Navy Beans. We handle Oregon Grown seed and you will find they yield well and ripen in this valley. Lb. 10c.

BEETS---TABLE VARIETIES

A light sandy loam is preferable for good shaped roots of good color. The soil must be rich and moist to get a quick growth, which is essential to crisp, tender flesh. Prices are as follows on all table varieties. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.25 postpaid.



White's Improved Blood Turnip. We have this grown especially for us, and can recommend it as one of the very best table beets; a turnip-shaped variety with deep red flesh; tops green.

Extra Early Egyptian. One of the best known and most popular varieties. Is very early and of fine quality. Bright red with clear vermillion flesh.

Extra Early Eclipse. A fine, early table variety, tapering, globe shaped. Flesh, deep crimson, zoned with pink.

Detroit Dark Red. One of the best table varieties. Globe shaped, bright but rich red flesh.

Half Long Blood. Grows about eight inches long. Very rich, deep red flesh of fine color.

Long Dark Smooth Blood. The leading late variety, keeping well all the winter. Flesh deep purple, fine and sweet.

MANGEL WURZEL, SUGAR AND STOCK BEETS

Should be grown more extensively, as they afford an abundance of feed at a small outlay. Prices are uniform as follows: Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50. Five and ten pound lots by freight or express at purchaser's expense.

Mammoth Long Red. Grows to a very large size and makes fine feed. Very uniform, smooth and of good shape. Often yields from 40 to 50 tons per acre. Should be grown in deep loose soil.

Golden Tankard. A very large mangle growing about half out of the ground. Considered the best for dairymen.

Yellow Giant. Roots very large; flesh white, sweet and tender. An enormous cropper.

French Sugar Beet. Flesh white and tender. Fine for table and stock feeding.

New Mangle Half Sugar. Fine for stock feeding. Does not yield as heavy as the mangels, but makes better feed.

SWISS CHARD BEET

Cultivated for its stalks and leaves, which are prepared and served similar to asparagus. Tender and delicious. Pkt. 5c; oz. 10c; lb. \$1.00.

BROCCOLI

Broccoli is very much like cauliflower in general appearance and growth, but is hardier and will stand more cold and frost. Produces fine heads from late in the fall until early in the spring, according to time plants are set out. Culture same as cauliflower.

Large White French. A valuable variety, with large heads, firm and of good quality. Pkt. 5c; oz. 40c.

BRUSSELS SPROUTS

Dwarf Improved. A carefully grown variety, very hardy, and giving compact, round sprouts of large size and good quality. Pkt. 5c; oz. 15c.

COLLARDS

Used as greens. As the leaves are pulled off others grow in their places. Pkt. 5c; oz. 15c.

CRESS

Curled or Pepper Grass. Used as a salad dressing. Pkt. 5c; oz. 10c.

Water Cress. Forms a plant, the leaves of which are used for salad or dressing. Thrives only when the roots and stems are submerged in water. Pkt. 5c; oz. 35c.

CHICORY

Large Rooted or Coffee. The favorite variety. Pkt. 5c; oz. 10c; lb. 75c.

BIRD SEED

Sunflower. Per lb. 10c.

Canary. Per lb. 10c.

Hemp. Per lb. 10c.

Millet. Per lb. 10c.

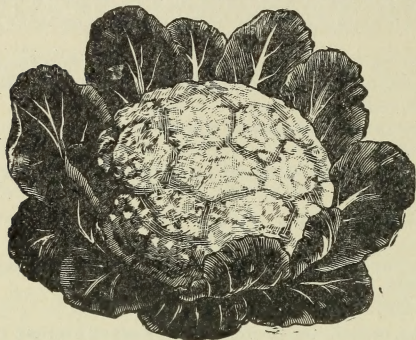
Rape. Per lb. 10c.

Cuttlebone. Per lb. 75c.

If wanted by mail, add 10c per lb.

CAULIFLOWER

CULTURE—The cauliflower succeeds well in any soil where cabbage will grow.



Large Algiers. A valuable late sort, sure to head, of the best quality, and very popular with market gardeners everywhere. One of the very best late varieties. Pkt. 5c; oz. 75c.

Early Snowball. The best and most popular variety grown. There is a vast difference in the strains of this variety offered, but what we offer is the best imported stock. Those who have had trouble with cauliflower should try this Snowball; uniformly fine heads, even under adverse conditions. Pkts. 10c, 25c; $\frac{1}{4}$ oz. 75c; oz. \$2.50.

Oregon Wonder. A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon wherever tried. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

Dry Weather. A strain of the Early Snowball type, which is especially adapted to drier climates. It is a Danish variety (the best cauliflower comes from Denmark), and is destined to become very popular in our climate. Pkt. 10c; $\frac{1}{4}$ oz. 75c; oz. \$2.50. $\frac{1}{4}$ lb. \$8.00.

CABBAGE

CULTURE—For the earliest supply seed may be sown in September and the plants wintered over in coldframes, or seed started in hot beds or cold frames early in the spring. For the fall crop seed should be sown early in June and the young plants transplanted to the rows during the latter part of July. In planting be sure to set the young plants down to the first leaves. One ounce of seed will sow 300 feet of drill; 4 ounces sown thinly should provide plants enough for one acre.

EARLY VARIETIES

Early Jersey Wakefield. The favorite early cabbage with market gardeners. Heads are of a good size, solid, a sure header and always give satisfaction. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Early Drumhead. Heads flattened. A good keeper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Early York. Small, but very early. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Early Winningstadt. Conical solid head. A fine keeper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.50.

Henderson's Early Summer. The head is round and the largest of the early kinds. Is firm and of the best quality.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.



Early Flat Dutch. Firm, fine grained and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.60.

Charleston, or Large Wakefield. Larger and a little later than the Jersey Wakefield. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Allhead Early. Probably the earliest of the flat-headed varieties. Is good for summer, autumn or winter crop. Pkt. 5c; oz. 15c; lb. \$1.75.

LATE CABBAGE

Premium Late Flat Dutch. Considered the best late cabbage for all purposes. A sure header. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Premium Late Drumhead. Has no superior for family or market purposes, either for medium early or late purposes. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Hollander or Danish Ball Head. Head of medium size, round and very solid. The finest cabbage ever sold on the market. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 90c; lb. \$3.00.

Autumn King, or World Beater. A sure header, very solid, fine grained and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Sure Head. A favorite with many. Certain to head. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Perfection Drumhead Savoy. A variety that is much prized in Europe and also by those who are familiar with it in this country. It is very sweet and always tender. Heads medium sized and fairly compact. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00.

Succession, or All Seasons. Heads large, slightly flattened; grows low on the stem. Pkt. 5c; oz. 15c; lb. \$1.75.

Mammoth Rock Red. Used for pickling. The heads are very fine and a sure header. Pkt. 5c; oz. 15c; lb. \$1.75.

CARROTS

CULTURE—For early carrots for table use sow as early as the ground can be worked; for late crop until the latter part of July; early in August for a winter crop. For the main crop, sow from the middle of May to the first of July. Thin out in the row from 5 to 6 inches apart, rows 12 to 14 in. apart. Hoe often and deeply between the rows. Light sandy loam, richly manured is best soil.

One ounce will sow about 125 feet of drill; 4 lbs. will sow an acre.

If wanted by mail, add 10c per lb.



Earliest Short Horn, or French. Very early, reddish brown, globular and about two inches in diameter. Pkt. 5c; oz. 10c; lb. \$1.00.

Early Scarlet Horn. The best early kind for general use. Fine quality. Pkt. 5c; oz. 10c; lb. \$1.00.

Chantenay. The market gardeners' favorite. Fine cooking variety. Deep orange in color. Flesh very crisp and tender. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 40c; lb. 75c.

Danvers Half Long. The smooth handsome roots are orange, of medium length. A heavy producer and a fine feed. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 65c.

Ox-Heart. A thick carrot, 5 or 6 inches long and very blunt at lower end. A favorite carrot for

market and home gardens. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 75c.

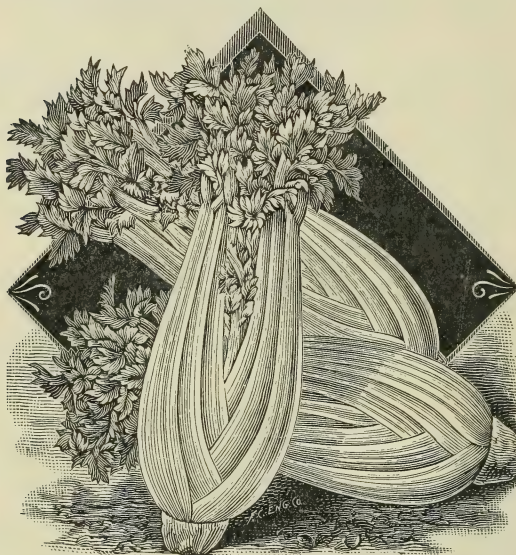
Long Orange. One of the best for stock feeding. Grows to a large size; oz. 5c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Large White Belgian. Grown for stock feeding. Very productive. Grows so much above ground that it is easily pulled by hand; oz. 5c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Large White Mastodon, or Short White. Roots half long, smooth, very heavy at the shoulder, but tapering regularly to the point. Very productive; oz. 5c; $\frac{1}{4}$ lb. 20c; lb. 60c.

CELERY

CULTURE—Sow the seed early in a hotbed or coldframe. As soon as the plants are three inches high, transplant in a prepared border, setting them four inches apart. When grown six inches and fine stocky plants, set in richly manured, deep soil in rows three feet apart, and about nine inches from plant to plant. Water if dry weather follows transplanting. One ounce produces about two thousand plants.



White Plume. The leading white celery. A handsome crisp sort of very easy cultivation. Pkt. 5c; oz. 25c; lb. \$1.50.

Golden Self Blanching. The best celery for early market use. Easily blanched. Pkt. 5c; oz. 40c; $\frac{1}{4}$ lb. \$1.50.

Winter Queen. This is, without doubt, the most valuable variety of celery for winter and spring use ever introduced. Has double the heart of any known celery. It is beautiful in appearance, of close habit and compact growth, and blanches to beautiful cream white. Ribs solid, crisp and have a delicious nutty flavor. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

Celeriac, or Turnip-Rooted Celery. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c.

CORN-SWEET OR TABLE VARIETIES EXTRA GROWN STOCK--ESPECIALLY SWEET

If wanted by mail, add 10c per lb.

EXTRA EARLY VARIETIES

Golden Bantam. Sometimes called Golden West or Golden Cream. One of the finest sweet corns grown. Very early, tender and extra sweet. Try it; we know that you will like it. Lb. 15c.

Peep'O'Day. The earliest sweet corn on the market. Sweet and very productive. Fine for market or garden. Lb. 15c.

Extra Early White Cory. An extra early white variety with sweet, white grains. Ears six or seven inches long, and of excellent quality. Lb. 10c; 10 lbs. 85c.

Mammoth White Cory. Larger and a few days later than the Early Cory but of the same excellent quality. Sweet, tender and fine for market. Lb. 10c; 10 lbs. 85c.

Early Minnesota. One of the best early varieties for market or garden. Stalks about five feet high. Ears long and 8 rowed. Lb. 10c; 10 lbs. 80c.

MEDIUM EARLY VARIETIES

Early Mammoth A new variety that gives very fine satisfaction. Ears large, well filled. Corn sweet and tender. Fine market variety. Lb. 10c; 10 lbs. 85c.

Early Evergreen. Or Oregon Evergreen. Earlier than the famous Stowells Evergreen but having all the good qualities of that great corn. Fine for second crop. Lb. 10c; 10 lbs. 85c.

Country Gentleman. Or Shoe Peg. One of the finest flavored corns grown. Very sweet and tender. Lb. 15c.

LATE VARIETIES

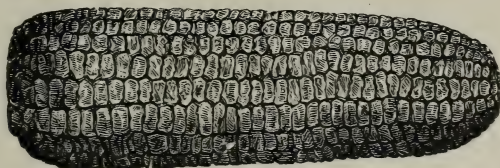
Stowells Evergreen. This is the most popular and best main crop sweet corn grown. It is especially adapted to the Pacific Coast, yields heavy, is sweet and very popular. One of the best corns for green feed and ensilage grown. Grows six to eight feet high and remains in condition to use for a long time. Lb. 10c; 10 lbs. 80c. Special prices on large lots.

Late Mammoth. A large, late variety used both as a table variety and for fodder purposes. Very productive. Lb. 10c; 10 lbs. 85c.

FIELD CORN

Field corn is being grown successfully in the valley; the only trouble has been in getting varieties suitable for this climate. In the following list we have taken varieties that have been tested out and made good here.

The prices on the following varieties are as follows: lb. postpaid, 15c; 10 lbs. 50c; 100 lbs. \$4.00.



Orange Yellow Dent. Our seed is selected from the best growers, and will ripen here, as it is acclimated. We have the largest trade in the state on Oregon grown corn for seed purposes.

Pride of the North. The best variety for fodder and ensilage. Grows to a good height.

Leaming. A popular, tall-growing variety. Is early, stalks are leafy, making fine fodder or ensilage. Kernels are long and a deep golden yellow.

King of the Earlys. A large yellow dent that is suitable for this climate. It is a great producer and fine for both corn and fodder.

Minnesota King. A variety that is recommended very highly for this valley. Small cob and large kernel, and a heavy yielder.

Early Mastodon. This is an early corn that seems to do fine here. It has been tried for several years and is a very heavy producer.

Champion White Pearl. A large, late variety with pearly white kernels. Very popular with dairymen on account of the great amount of feed that it makes.

If you want a Corn that will ripen every year, try the **Flint Corn.**

Sanford White Flint. An early tall variety, bearing large ears, which are well filled with pure white kernels.

King Phillip. An extremely early red corn that does well here. Ears long and well filled. A sure cropper.

Longfellow—Yellow Flint. A flint corn that produces a fine, large, long ear. Will ripen any season. Fine for feed.

Canada Flint. An extremely early, eight-row corn that is adapted to this climate. Yellow kernels and sure to ripen.

POP CORN

White Rice. The best variety for this climate. Ripens fine here. Lb. 10c; postpaid, 20c.

CUCUMBERS



Early Short Green, or Early Frame. An excellent sort for both table and pickling. Small and early.

Early Cluster. Very early and productive. Fine for pickling.

Chicago Pickling. The great pickling variety. An old favorite.

Peerless White Spine. The best cucumber for all purposes, as it is good for table use and can not be beat for pickling.

Improved Long Green. The old family favorite. Very productive and a fine cucumber for family or market.

Japanese Climbing. A new variety that climbs a fence or trellis and produces a very large fruit that is of excellent quality. Pkt. 5c; oz. 10c; lb. \$1.25.

In this latitude it is useless to plant in the open ground until nearly the first of May. Make hills two feet in diameter and about six feet apart, and enrich them with well rotted manure. Plant a dozen or more seeds, covering half an inch deep. When all danger from insects is over, pull all but three or four of the strongest plants. One ounce for fifty hills; two pounds per acre when planted in hills. Pkt. 5c; oz. 10c; lb. 80c, except as noted.

ENDIVE

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

Green Curled. Standard sort for fall and winter. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

White Curled. A beautiful variety with curled, mossy leaves; for early use. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

EGG PLANT

Early Long Purple. The earliest and hardiest. Pkt. 5c; oz. 25c.

KALE

Dwarfed Green Curled. Leaves curled and a bright green. Pkt. 5c; oz. 10c.

Tall Scotch—Green Curled. Grows about two feet high; leaves dark green, curled and wrinkled. Very hardy. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c.

Thousand Headed. Grows very large. Use mostly for stock feeding. Pkt. 5c; lb. 50c; postpaid.

KOHL RABI

Early White. Best table variety. Pkt. 5c; oz. 20c.

LEEK

Large Rouen. The favorite variety. Pkt. 5c; oz. 15c.

MUSTARD

Southern Giant Curled. Pkt. 5c; oz. 10c; lb. 60c.

White English. Leaves mild and tender when young. Pkt. 5c; lb. 25c. If wanted by mail, add 10c per lb.

LETTUCE

Sow in the open ground as early as possible, barely covering the seed. If the hotbed is used, let it be started quite early. Give but little heat and plenty of water and air on fine days. Let plants in the bed be about four inches apart. As they increase in size thin them out, or they will become weak. One-half ounce will sow one hundred feet of drill.



May King. A grand new butter lettuce. A large growing, smooth leaved, richly flavored sort, which we believe to be the best of all smooth leaved lettuces. Plant is light green, with round leaves which form into a very solid, compact round head; stands a long time without running to seed. Leaves are very thick, folded or puckered at base, inner ones blanch to a rich golden yellow. Exceedingly rich, tender and buttery. Fine for open ground or forcing. Pkt. 5c; oz. 10c; \$1.00.

Simpson's Early Curled. A leading market variety. Very tender. Pkt. 5c; oz. 10c; lb. \$1.00

Hanson. The leading head variety. Crisp, tender and well flavored. Pkt. 5c; oz. 10c; lb. \$1.00

Early Prize Head. One of the very best kinds for the garden. A large loose head, tender and crisp. Pkt. 5c; oz. 10c; lb. 80c.

Grand Rapids. The best early kind for forcing. A favorite of gardeners. Pkt. 5c; oz. 10c; lb. \$1.00.

Big Boston. A popular market variety. A light green cabbage variety, slightly tinged with brown in head. Has a particularly fine golden buttery head; Pkt. 5c; oz. 10c; lb. \$1.00.

Brown Dutch. Forms a large, solid head, sweet, tender, and of good flavor. Outer leaves tinged with brown. Very hardy. Pkt. 5c; oz. 10c; lb. \$1.00.

Black Seeded Simpsons. An old, well known variety. A bunching variety, forming no definite head. It has a large mass of fine brittle leaves of a light green color. Pkt. 5c; oz. 10c; lb. 85c

MELONS

MUSKMELON OR CANTALOUPE

Plant in rich, wet land, using one ounce to 100 hills or two or three pounds to the acre.

Burrell's Gem. A medium sized, oval variety, deeply netted and having salmon or red flesh. Fine grain and fine flavored. Pkt. 5c; oz. 10c; lb. \$1.00.

Rocky Ford, or Netted Gem. The most largely cultivated variety in use. Fruit is slightly oval, finely netted and slightly ribbed. Flesh green, thick, very sweet and of fine flavor. Pkt. 5c; oz. 10c; lb. \$1.00.

Osage, or Miller's Cream. One of the finest flavored melons. The sweetest of all. Rich salmon color. Pkt. 5c; oz. 10c; lb. \$1.00.

Extra Early Hackensack. An early variety with almost globular fruit, which is heavily ribbed and netted; flesh thick and light green. Pkt. 5c; oz. 10c; lb. \$1.00.

Large Yellow Cantaloupe. The flesh is light yellowish green, very sweet, crisp and delicious. Pkt. 5c; oz. 10c; lb. \$1.00.

Small Green Nutmeg. The old favorite. Fine for home or market. Flesh thick and green. Pkt. 5c; oz. 10c; lb. \$1.00.

Cassaba, True Stock. This is an excellent melon and much sought after. Large, rather oblong, well ribbed, skin thin, netted, and of greenish yellow color. Flesh 2 to 3 inches thick, delicious and melting. Pkt. 5c; oz. 10c; lb. \$1.25.

WATERMELON

Kleckley's Sweet, or Monte Cristo. A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark mottled green in two shades, forming indistinct stripes. Flesh a beautiful rich red, exceedingly sweet and tender. Pkt. 5c; oz. 10c; lb. 65c.

Cuban Queen. A very fine variety, growing to a great size; flesh bright red, solid and sweet; the skin is beautifully striped dark and light green; melons are wonderfully solid, rind thin. They are enormously productive and ripen early. Pkt. 5c; lb. 60c.

Ice Cream, or Peerless. A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained, cannot be surpassed in flavor; very prolific, magnificent grower. Oz. 5c; lb. 60c.

Sweetheart. This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green, rind thin but firm; flesh bright red, firm, solid but very tender, melting and sweet; fruit retains its good quality for a long time after ripening. Oz. 5c; lb. 60c.

Wonderful McIver, or Sugar Melon. The sweetest of all. It is of medium size, with striped or variegated exterior, beautiful red flesh, and light colored or white seeds. The flesh is entirely stringless, and of perfect quality as to texture. The vines are strong, thrifty and prolific and well adapted to stand either wet weather or drought. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.

Halbert Honey. A large, oblong variety of the best quality. Is especially sweet in flavor, crisp and brittle, and well ripened to a very thin rind. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.

Cole's Early. A great favorite for a large area of different climates. Fruit medium sized, oblong, striped and mottled. Flesh bright red, solid and of fine sweet flavor. Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 50c.

Ferry's Iceberg. Flesh bright red, rind exceedingly hard and firm, making it a good shipping variety. Skin very dark except where it rests on the ground where it is a rich yellow. Tender and sweet, fine for market. Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 60c.

Kolb's Gem. The well-known shipping variety. The fruit is large, thick and oval, with flattened end; flesh bright red. Oz. 5c; lb. 50c.

Hungarian Honey. A very sweet variety and fine for home garden. Oz. 5c; lb. 60c.

CITRON

Red Seeded. Round and handsome; for preserving only. Oz. 10c; lb. 60c.

ONIONS



PURE SEEDS. Highest tests. We pride ourselves on selling the very best onion seed that can be produced. Try it.

Oregon Yellow Danvers. This is a variety planted almost entirely in the Northwest, particularly in Oregon. The bulbs are large, of a half globe shape, with small necks. The best keeper and brings the highest prices in both Oregon and California. Our seed is from the best growers. Pkt. 5c; oz. 15c; lb. \$1.50.

Yellow Flat Danvers. A well known variety that does fine here. Pkt. 5c; oz. 10c; lb. \$1.25.

Yellow Globe Danvers. A very handsome globe shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm and a good keeper. Pkt. 5c; oz. 15c; lb. \$1.50.

White Portugal or Silverskin. A good variety for table or market. Skin and flesh pure white; mild flavor and flat shape. The best white onion. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 65c; lb. \$2.25.

Prizetaker. The genuine. The handsomest and largest globe onion. A perfect globe shape, with a bright straw colored skin. The necks are small and the onions always ripen up hard. Pkt. 5c; oz. 15c; lb. \$1.50.

Australian Brown. The skin is thick and the color a dark brown; the longest keeping onion on the market. Pkt. 5c; oz. 10c; lb. \$1.25.

Large Red Weatherfield. A standard variety; one of the most productive kinds, even in poor soil. Pkt. 5c; oz. 15c; lb. \$1.25.

Southport White Globe. A pure white, globe-shaped variety. Forms handsome, hard onions with waxlike, pearl white flesh. Is used a great deal for green onions, owing to the clear white stem. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 70c; lb. \$2.25.

Extra Early Red. Very early. Very mild flavor and fine quality. Is much used for green onions. Pkt. 5c; oz. 15c; lb. \$1.25.

Extra Early Barletta. Is a white onion forming small onions about one inch in diameter. Fine for pickles. Pkt. 5c; oz. 20c.

White Bermuda. A very early variety, used largely in the south as an early market onion, when the seed is sown in the fall and the onions harvested in the spring. It is mild and of particularly fine flavor. The color is a pinkish-straw color, and the shape is flat. Pkt. 5c; oz. 30c; $\frac{1}{4}$ lb. 90c; lb. \$2.75.

ONION SETS

We make a specialty of onion sets, and have the largest trade in the city on same. On account of the market we do not quote prices, as the price is subject to changes. Write for prices or send in your order and we will fill it at market prices at time order is received.

OKRA OR GUMBO

Long green pods. Pkt. 5c; oz. 10c.

PARSLEY

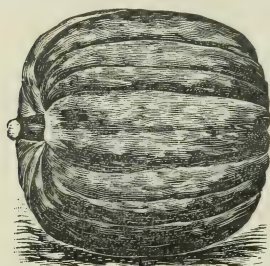
Used for flavoring soups, meats, and garnishing. Pkt. 5c; oz. 10c.

PARSNIPS

Hollow Crown. Root white, very tender, with smooth, white skin. Pkt. 5c; oz. 10c; lb. 40c. Postpaid, 50c lb.

PUMPKIN

CULTURE—Care should be taken to keep the different varieties apart, and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate.



Winter Luxury. The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Large Yellow, or Connecticut Field. Large round, deep glossy yellow. Vines vigorous and very productive; good keeper; grown extensively for stock feeding. Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 50c.

King of Mammoths. Grows to an enormous size. Pkt. 5c; oz. 10c; lb. 90c.

Large Sweet Cheese. A popular variety; fruit flattened, skin mottled light green and yellow; flesh yellow, thick, tender, very nutritious and of excellent quality; a most productive variety. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Sweet, or Sugar. A handsome and productive small pumpkin, 10 to 12 inches in diameter, round, flattened; skin orange, flesh deep yellow, fine grained and very sweet. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

PEPPER

Sow the seed early in hotbeds, or later when the weather becomes warm, in open beds. When two or three inches high transplant to a warm, mellow soil, in rows 18 inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c.

Ruby King. Very large, sweet and mild; bright scarlet.

Large Bell, or Bull Nose. Large, mild, thick-fleshed variety; one of the best for stuffed pickles.

Red Chili. A rather small, bright red variety about two inches long, and pointed. The pods are used in making Chili sauce, and are very pungent and hot.

NORTHERN GROWN SEED PEAS

Our seed peas are all grown far north, thoroughly rogued, and carefully hand-picked. They are raised only from the choicest selected strains and even in normal seasons, when there are full crops, are acknowledged to be worth from fifty cents to one dollar a bushel more than are the usual "commercial" grades commonly sold,

If wanted by mail add ten cents per pound for postage

Burpee's Best Extra Early. The best strain of Extreme-Early and remarkably uniform Extra Early Peas yet developed! This superb new "pedigree" strain is the result of most careful expert work of selection and re-selection continued through a long series of years. It excels in purity of stock and freedom from sports all other extra early peas ever offered in this or any other country. The vines are quite slender, of very quick growth, and average eighteen to twenty-four inches in height. The pods are well filled and the entire crop can be gathered generally in one picking. Lb. 15c; 10 lbs. \$1.35.

Alaska. An extremely early variety that can be planted either in fall or early spring. Grows from 20 to 30 inches in height and all matures at one time. Fine for early market. Lb. 15c; 10 lbs. \$1.15.

Gradus or Prosperity. An extra early pea with a large pod. Height, two feet. One of the very best early varieties. Pods well filled with large sweet, tender peas. Fine for market and home garden. Lb. 20c; 10 lbs. \$1.50.

American Wonder. One of the best known and best liked peas on the market. A good yielder, very early, and fine sweet peas. A great favorite for family use. Lb. 15c; 10 lbs. \$1.35.

Premium Gem, or Little Gem. One of the finest of the extra early peas. Peas are very sweet, wrinkled, tender, and crisp. Dwarf. Lb. 15c; 10 lbs. \$1.25.

Nott's Excelsior. A fine early dwarf pea. Pods are always well filled with sweet, tender peas. Fine for market and home garden. Lb. 15c; 10 lbs. \$1.35.

King Edward. A delicious, new early wrinkled pea of great merit. The pods are well filled and the peas are as large as most late sorts. Height, about 15 inches. Try this new pea. Lb. 15c; 10 lbs. \$1.35.

First and Best. A small vined pea that is very early. Grows about ten inches high. Lb. 15c



MAIN CROP VARIETIES

Magnificent. A robust grower, producing a profusion of large, handsome, deep green pods, well filled with luscious, tender, sweet peas.

A grand medium early variety for the home garden or market. Height, two feet. Lb. 15c; 10 lbs. \$1.35.

Improved Stratagem. One of the best of the large podded sorts. The pods are of immense size, well filled with wrinkled peas of the finest flavor. We urge you to try it as we know that you will like it. Lb. 15c; 10 lbs. \$1.35.

Yorkshire Hero. One of the largest sweet wrinkled varieties. Pods of a good size and well filled. Medium late; bears a long time. Height 30 inches. Lb. 15c; 10 lbs. \$1.25.

Telephone. The best mid season variety. Is tall and large; wrinkled peas of fine quality. Grown by gardeners as a main crop for market. Fine for home use. Lb. 15c; 10 lbs. \$1.35.

Champion of England. One of the most popular tall wrinkled late varieties. Is very prolific and hardy, and the peas are of fine, rich quality. Lb. 15c; 10 lbs. \$1.35.

White Marrowfat. A pole variety with smooth white peas. A heavy producer. Lb. 15c.

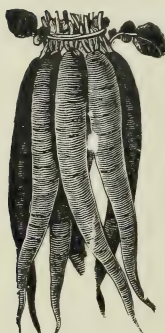
Melting Sugar. Edible Podded. The kind that you cook pods and all, the same as string beans. A pole variety. Lb. 25c.

Dwarf Melting Sugar. Same as above but a dwarf pea. Lb. 25c.

RHUBARB, OR PIEPLANT

Victoria, or Mammoth. Very large, finest cooking variety. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.50.

RADISH



Icele. A handsome white variety, about five inches long, with sloping top and pointed root; quick growing, brittle and mild in flavor. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Crimson Giant. A new variety which will be a popular market and home variety, since it matures very early and remains firm and crisp much longer than other short varieties; color rose carmine, with white tip; it is top shaped. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Scarlet Turnip, White Tipped, or Rosy Gem. One of the most popular and attractive short varieties; it is globe shaped, bright rose carmine, with bottom and tip clear white stems and leaves small, very valuable for forcing as well as for the house garden and market. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Early Scarlet Globe. A popular forcing variety owing to its quick growth and fine scarlet color; shape a trifle oblong. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Early Snowball. A very quick growing, small turnip shaped variety; color clear white, very mild flavor, and valuable for forcing. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 65c.

French Breakfast. A popular variety for market or forcing; it is about two inches long and decidedly stump rooted; color bright rose, with bottom of root and the tail pure white. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

White Strasburg. A large white variety for late summer use; rather thick at the shoulder and tapering to about five inches in length; keeps firm and solid a long time. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

White Vienna, or Lady Finger. A very fine, long, white variety, quick growing, and ready for use when very young; the flavor is mild and sweet. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Half Long. The variety most largely used by gardeners in California; it is about three inches long with half stump root and sloping top; color carmine; quick growing and hardy. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Long Scarlet Short Top. The best known and most popular long variety; color bright carmine, flesh brittle and firm, about six inches long, the top growing out of the ground about one inch. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Highest Long Scarlet. A very showy long variety; thick at the shoulder and tapering; bright rose scarlet with distinct white top. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Chartier. A very long variety, and larger in diameter and general size than Long Scarlet; keeps hard and crisp longer than most varieties, and is an excellent garden sort; color bright rose with lighter colored tips. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

WINTER RADISHES

China Rose Winter. Bright rose color; flesh white, firm and of superior quality. Pkt. 5c; oz. 10c; lb. 60c.

Mammoth White China. Roots from 10 to 12 inches long, and are solid, tender and crisp. Pkt. 5c; oz. 10c; lb. 60c.

Long Black Spanish. Flesh white; one of the latest and hardiest. Pkt. 5c; oz. 10c; lb. 60c.

SALSIFY, OR VEGETABLE OYSTER

Mammoth Sandwich Island. The leading tender variety. Produces a large crop of straight, smooth roots. Pkt. 5c; oz. 10c; lb. \$1.50.

SUNFLOWER

Mammoth Russian. The favorite kind. Lb. 10c; postpaid 20c.

SQUASH



Mammoth Summer Crookneck. Flesh tender and of good quality. Pkt. 5c; oz. 10c; lb. 70c.

Mammoth White Bush Scallop. The best summer sort for the market. Pkt. 5c; oz. 10c; lb. 70c.

Hubbard. The best seller and most popular squash; keeps through the winter. Oz. 10c; lb. \$1.00.

Mammoth Chili. The largest of all squashes rich, fine flavored flesh. Oz. 10c; lb. \$1.00.

Golden Hubbard. The same in size, shape and quality as the well known Hubbard squash, except that it is a bright red or golden color and somewhat earlier; it is also a long keeper, vigorous and wonderfully productive; in flavor it has no equal. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 90c.

Sibley, or Pike's Peak. Shell smooth, thin and of a pale green color. Oz. 10c; lb. 80c.

New Delicious. This new fall and winter squash resembles the old Hubbard, having a dark, olive green, hard shell; average weight is between five and ten pounds; seed cavity small, flesh exceedingly thick, compact, fine grained; color golden orange. The flesh is meaty, granulated, tender and almost of mealy dryness, cooking sweet and rich, whether steamed, baked, boiled or made into pies. Oz. 10c; lb. \$1.00.

SPINACH

An easily grown plant, the seed of which may be planted in the fall to secure good spinach early in the spring. The soil should be rich.

Bloodsdale Savoy. A favorite market variety. Leaves large, round and thick. One of the earliest sorts. Pkt. 5c; oz. 10c; lb. 50c.

Long Standing. A deep, green variety that stands a long time without going to seed. Pkt. 5c; oz. 10c; lb. 50c.

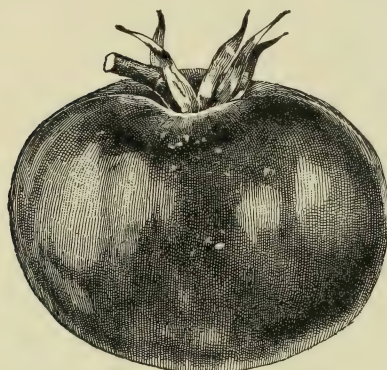
Thick Leaved. Large-leaved green variety. Leaves rather smooth and rounded at top. A good variety for late summer and spring. Pkt. 5c; oz. 10c; lb. 50c.

Victoria. A long-standing variety with round leaves. Deep green and hardy, and remains ready for use for a long time. Pkt. 5c; oz. 10c; lb. 50c.

TOBACCO

Connecticut Seed Leaf. Best adapted for general use. Does well here. Pkt. 5c; oz. 20c.

TOMATOES



Atlantic Prize. The earliest large variety; perhaps the best variety for the valley. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 70c.

Early Michigan. A smooth and very early tomato. Pkt. 5c; oz. 20c.

Perfection. One of the best; medium early; round and smooth. Pkt. 5c; oz. 20c.

Earliana. The earliest, large and smooth tomato; the most perfect of all tomatoes; of large uniform size, and beautiful red color. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 70c.

New Stone. The greatest canning tomato in the world; this variety has obtained great popularity with the canners, growers and market gardeners, everywhere. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 70c.

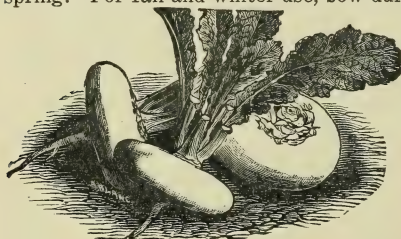
Chalk's Early Jewel. A wonderful new variety, in that it is early and bears continuously throughout the season; the fruit is large, smooth, uniform and well ripened clear to the stem, and flavor and quality are especially fine. Color is a bright scarlet. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c.

Dwarf Champion. A dwarf variety, sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising; fruit medium sized, smooth, uniform, and of a purplish carmine color. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

Husk Tomato, or Ground Cherry. Used mostly for preserves. Pkt. 5c; oz. 30c.

TURNIPS

For early use sow the small sorts as soon as the ground can be worked in the spring. For fall and winter use, sow during July, August and September.



EARLY GARDEN TURNIPS

White Egg. Is clear white, excellent flavor, sweet and mild. Favorite for table use. Pkt. 5c; oz. 10c; lb. 60c.

Early White Flat Dutch. Flesh white, firm, tender and sweet. Pkt. 5c; oz. 10c; lb. 50c.

Early Purple Top, Strap Leaved. The leading white-flesh variety, and one of the best for all

purposes. Keeps good. Pkt. 5c; oz. 10c; lb. 50c.

Early White Milan. Pure white, sweet and tender. A leading market variety. Pkt. 5c; oz. 10c; lb. 75c.

Orange Jelly, or Golden Ball. One of the most delicate and sweet flavored yellow fleshed varieties introduced. Fine as a table variety. Pkt. 5c; oz. 10c; lb. 60c.

MAIN CROP TURNIPS

Purple Top White Globe. The favorite large variety, both as field and table variety. Handsome and of excellent quality. Pkt. 5c; oz. 10c; lb. 50c.

Pomerian White Globe. A very productive kind. Grows large and makes excellent feed for stock. Pkt. 5c; oz. 10c; lb. 60c.

Yellow Aberdeen. Round, medium size, light yellow. A great favorite with the dairymen. Pkt. 5c; oz. 10c; lb. 50c.

Cow Horn. Grows half out of the ground and is a rapid grower. Immense yielder. Delicate and well flavored. Pkt. 5c; oz. 10c; lb. 60c.

RUTA BAGAS

If wanted by mail, add 10c per lb. for postage.

Monarch, or Tankard. Flesh yellow, fine grained, and a heavy yielder. Oz. 5c; lb. 50c.

American Purple Top. A favorite variety; grows to a large size and produces immense crops. Oz. 5c; lb. 50c.

Sweet Russian. Most excellent for table and stock, sweet and rich. Pkt. 5c; oz. 10c; lb. 60c.

FLOWER SEEDS

THE "SPENCER" TYPE OF SWEET PEAS

Special Re-selected Stocks for 1913.

By reason of their increased size, waved or fluted appearance and charming blendings of harmonious colors, the new "Spencer" Type may be appropriately described as Truly Gigantic "Orchid-Flowered." The flowers are not only of *extremely large size*, and attractively *waved* or crinkled, but are distinct also in having the outer edges of the standard and wings serrated. The standard is broad and tall; the wings are broad, well spread and generally held erect by the keel.

All at the uniform price of 10c. pkt; 30c per oz.

Apple Blossom Spencer. Very large; standard bright rose, wings primrose.

White Spencer. Flowers very large and of magnificent form.

Countess of Spencer. The finest pink grown.

Primrose Spencer. One of the most beautiful sweet peas; a soft cream or primrose color.

Helen Lewis. Orange-salmon pink. Very fine.

Flora Norton. The color is bright blue with tint of purple.

Asta Ohn. Soft lavender; a great favorite of all.

Dainty. White ground, beautiful picotee edges of rose pink.

Othello. Rich maroon; very dark.

Florence Nightingale. A very large, finely waved bluish lavender.

W. T. Hutchins. Buff primrose shading to apricot pink at the margin.

King Edward. The best pure red Spencer. In packets only.

Ethel Roosevelt. Cream ground, daintily striped and flaked with crimson. In packets only.

White's Superb Spencer Mixed. This mixture contains a fine collection of the different Spencers blended together so as to make a beautiful mixture.

SELECTED SWEET PEAS

We offer for this season a very fine selection of Grandiflora varieties. All at the uniform price of 5c per packet; 10 cts. per oz. 35c per $\frac{1}{4}$ lb. and \$1.00 per lb. postpaid.

Dorothy Eckford. An extra large white variety.

Hon. Mrs. E. Kenyon. Primrose or light cream or yellow. Large, semi-hooded.

Stella Morse. Buff, suffused with tint of pink.

Prima Donna. The most popular clear pink hooded. Light pink.

King Edward. One of the very best pure red shades.

Lady Griesel Hamilton. Soft lavender, tinted with mauve in standard

Navy Blue. Violet and bright blue.

Othello. Deep maroon. Hooded or shell shape.

America. Bright red striped and flaked on white ground.

Black Knight. Glossy deep maroon. Very large.

Blanche Ferry. A beautiful pink and white.

Lovely. A blending of white and pink with pink edges. Very beautiful.

Maid of Honor. Clear white ground with blue edges. Beautiful.

Miss Wilmot. Bright orange pink, showing veins of deeper pink.

Apple Blossom. Crimson pink, shading lighter; wings white, tinted pink.

Janet Scott. Clear pink at base, shading buff at edge.

White's Extra Fancy Grandiflora Mixed. A fine selection of the different varieties, carefully blended together to make a beautiful showing of the different colors in a harmonious effect.

NASTURTIIUM

Nasturtium. Tall,ameleon; different colored flowers on same plant. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb \$1.00.

Nasturtium. Spit fire. Fiery scarlet; very fine. Pkt. 5c; oz. 10c.

Nasturtium. Fancy tall mixed. A fine selection of the different climbing varieties in all colors. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c.

Nasturtium. Tom Thumb or Dwarf. A fine selection of the dwarf variety. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c.

On account of limited space in this catalog we list only a few of the main flower seeds, but we have a large stock of very choice, selected seeds, and will be glad to fill your order at any time, whether we catalogue the particular variety that you may want or not.

FLOWER POTS, FERN AND BULB PANS, SAUCERS

Hanging Baskets. These are well made, having scalloped edge and fancy design on the lower outside. Better than wire baskets, as plants do not dry out so quickly. 8 inch, each 30c; 10 inch, each 40c; 12 inch, each 60c.

Flower, or Azalia Pots or Bulb Pans (all same price)

Saucers			Saucers		
Size	Each	Doz.	Size	Each	Doz.
2 inch.....	\$0 02	\$0 20	8 inch.....	\$0 15	\$1 75
3 inch.....	0 03	0 25	9 inch.....	0 25	2 50
4 inch.....	0 04	0 40	10 inch.....	0 40	0 20
5 inch.....	0 06	0 60	12 inch.....	0 60	0 35
6 inch.....	0 10	0 90	14 inch.....	1 40	1 00
7 inch.....	0 12	1 20	16 inch.....	2 25	1 25

Note—At above prices we will pack the pots carefully, but buyer must pay freight or express.

Plant Tubs These are well made of cedar and will last a life time. Painted a green color. Suitable for shrubbery, large plants, small trees, etc. Size No. 1, \$1.00 each; No. 2, \$1.25; No. 3, \$1.50.

WE ARE HEADQUARTERS FOR ALFALFA, CLOVER AND GRASS SEEDS

The prices of some varieties of Clover, Grass and Field seeds may change as the season advances. Prices now given are those prevailing when this catalog was published. It will be to advantage of intending purchasers to write for samples and special prices before ordering in large quantities.

ALFALFA

(**Medicago Sativa.**) One of the most valuable forage or pasture grasses, being very nutritious, both as a green feed and as hay. Often bears four or five crops a year and with irrigation, six or more. It does well in most any climate and improves the soil that is sown with it. The western part of Oregon, including the Willamette valley, Rogue River, Umpqua and other valleys, are now raising alfalfa successfully and it is proving a very profitable crop. Some of the finest alfalfa hay we ever saw was grown in the vicinity of Salem on non-irrigated land and produced several crops each season. One farmer informs us that he sold over \$60.00 worth of hay per acre, kept one crop for his own use and had all the pasture besides.

It certainly is one of the most profitable crops grown anywhere.

The main thing is to have the land in first class shape, free from weeds and then sow clean seed, free from dodder. Alfalfa seed grown without irrigation is considered by experts to be the best.

We have secured for this season's trade, some of the finest Idaho Alfalfa Seed that was ever grown. It complies with all the state laws and is, we believe, dodder free. While we do not guarantee our seed as that leaves a chance for some dishonest person to work a swindle, we have such confidence in our seed that we will, if you like, send you a sample for testing. These samples may be sent to Washington, D. C., or any state Agricultural College, as they will test them free for you.

We are having our seeds tested and will be glad to give you the test on any lot you may desire. Price per lb. 20c; postpaid 30c; 100 lbs. \$18.00.

CLOVER SEEDS

THE LARGEST DEALERS IN THE WILLAMETTE VALLEY IN CLOVER SEEDS

We make a specialty of handling the very best grass and clover seeds that can be obtained. We have a large power cleaner and clean all our seeds before offering it on the market. The days of sowing any old seeds are past, as the up-to-date farmer knows that it pays to seed only with the best on the market. You will find our prices are as low as seeds of like quality can be sold for. We do not pretend that our prices are as low as some seeds might be sold for; the quality of the seeds we handle is so much better than some dealers handle that there is no comparison and they usually want as much for seeds of inferior quality as we ask for seeds of the HIGHEST QUALITY, the only kind that we handle.

Our prices are today's market price, and are subject to market changes. All orders will be filled at the market price of the day the order is received, and full value will be sent for the amount of money you may remit.

Or when you are ready to buy, send for our price and state quantity wanted and we will make you special prices if possible.

For amount of seed per acre, see inside back cover.

This valley is getting to be one of the most profitable seed producing sections in the U. S. The valley produced last season about one hundred cars of fancy seed. The value was about a half a million dollars. The average yield of seed was about 5 to 6 bushels to the acre, bringing the grower about \$50.00 per acre.

A great many farmers had yields running as high as ten or 11 bushels per acre, bringing them over \$100.00 per acre; sometimes more than the value of the land.

In handling a great many lots of seed this season, we retained the fancy lots for own trade. We are, therefore, in a position to offer the finest lot of clover seed that it is possible to obtain. We are having all our clover tested for purity and germination and will be glad to give you test with any lot when desired.

Buying our seed direct from the grower, we are in a position to make prices that are absolutely the lowest on the market and still give you the highest quality seeds obtainable.

Seed down that farm or field of yours. It is the best thing to do for your land and it is, besides, one of the most profitable crops you can grow. Sow from 10 to 14 lbs. of red clover to the acre.

Red Clover. (*Trifolium Pratense*) The standard clover for all purposes. Yields the heaviest crop of any variety except alfalfa, makes superior hay, especially mixed with Timothy. Lb. 20c, postpaid 30c, 100 lbs. \$18.00.

Mammoth Red Clover. Similar to Red Clover, but coarser, taller and more hardy. Lb. 25c; postpaid, 35c; 100 lbs. market price.

Alsike Clover. Alsike succeeds on wet, cold and stiff lands as well as growing any place that red clover will grow. Makes fine hay as it is not as coarse as red clover. Lb. 25c; postpaid, 35c; 100 lbs. \$22.50.

White Dutch. (*Trifolium Repens*) Dwarf Spreading vine-like variety, with white blossoms; used largely for bee pasture. It is also an excellent pasture plant for either sheep or cattle; also makes a beautiful lawn. Sow 10 pounds per acre. Lb. 50c; postpaid, 60c.

GRASSES

Add 10c per pound for all grass seeds ordered by mail; prices below do not include postage. All prices subject to market changes.

Orchard Grass. One of the most valuable of all pasture grasses; produces an immense quantity of forage, and hay of best quality. After being sown comes up very quickly and yields very heavy. Suitable to sow under trees as it does well in the shade. Fine for burnt lands as it will catch if sown in the ashes; Lb. 20cts; 100 lbs. \$18.50

Timothy. We have secured some very fine Timothy seed from Idaho; Idaho having the reputation of growing the finest seed obtainable. As we buy direct, we are in a position to quote low prices. If you are going to need any quantity write for special prices.

Timothy makes the finest and best quality hay, bringing the highest prices on the market. It produces a larger crop than any other grass and always has a ready sale. In former times, Western Oregon was a great timothy producing country but in recent years has been neglected.

The last few years have witnessed a large increase in the acreage as farmers are finding it a very profitable crop as the hay is now bringing nearly twice as much as other varieties of hay on the general market. Sow about 14 lbs. to the acre. Lb. 10c; 100 lbs. \$8.50.

English Rye Grass. Perennial. One of the best grasses for this country as the moist climate is adapted to its growth. It grows rapidly and makes a good showing within a month from time of sowing. Does fine both on hill and bottom land. A good lawn grass but a little coarse. Lb. 10c; 100 lbs. \$8.50.

Italian Rye Grass. A quick growing grass attaining a height of 2½ feet to 4 feet. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and makes an abundance of hay or pasture. Lasts from 2 to 6 years. Sow 15 to 20 lbs. to acre. Lb. 10c; 100 lbs. \$9.50.

Mesquite, or Velvet Grass. This is one of the most hardy grasses grown here and makes an abundance of pasture both early and late in the season. Also used for hay quite extensively. Fancy hulled seed, lb. 20c; 100 lbs. \$18.00.

Kentucky Blue Grass. This grass is now being used quite extensively for pasture, it having proved to be a natural grass for this climate. We would recommend that you mix a little in any mixture for pasture that you may sow. Also, makes one of the finest lawns, either alone or mixed with other grasses. We have some extra fine, heavy seed. Lb. 20c; 10 lbs. \$1.75.

Creeping Bent Grass. Makes the finest lawn of any grass we have ever seen. The smooth, velvet lawns that every one admires. Either used alone or mixed with other grasses. Lb. 40c. 10 lbs. \$3.75.

Red Top. Fancy. Sown for pastures and lawns, either alone or as a mixture. Very desirable for wet lands and considered next to timothy as a grass hay. Lb. 25c.

Oregon Rye Grass. This is a strain of the English Rye Grass that has been grown here for several years and is acclimated to this coast. Fine for pasture on all kinds of land. Lb. 7½c; 100 lbs. \$7.00.

FANCY LAWN GRASS SEED

More fine lawns in the city have been made from our mixture than any other. We use only the choicest, re-cleaned, heavy grass seeds. This mixture of ours will produce a fine velvety thick lawn in a few weeks time, if the ground is properly prepared and the seed sown properly. Do not buy cheap seed; it means only a poor lawn. Sow our seed at the rate of one pound to 400 square feet of space. Lb. 40c; 10 lbs. \$3.85.

FARM AND FIELD SEEDS

We want to call your attention to our stock of Farm and Field Seeds. We are making a special effort to please those who want GOOD SEEDS and PURE SEEDS. We have at a large outlay installed a large power cleaner, equipped with all the latest cleaning devices, to handle this trade right. We clean all our seeds and seed grain thoroughly before offering on the market. Buy our re-cleaned seed grain and seeds, and sow nothing but clean seed; you have enough foul seeds now without sowing any more.

Seed Wheat. Our stock varies at the different seasons so that we would advise you to write or call for prices when you are ready to buy. In that way we can quote you on what we have in stock and send samples if desired.

Seed Oats—White Spring. We have in stock several varieties of well-known Seed Oats, including some new varieties that it would pay you to try.

Fall and Winter Oats—Grey. Usually have in stock some choice grey Oats for seed purposes. When in the market for Seed Oats of any kind, write for prices and samples.

Seed Barley. The market on Barley for seed will be lower this coming season, as all varieties of barley are more plentiful. Prices on application.

Seed Vetch. We handle several cars of Vetch Seed each season and have some very choice seed in stock at present. This is one of the most profitable crops grown for hay and pasture, and it pays any farmer to raise it. Also used for fertilizer by plowing under. 100 lbs. \$3.50.

Field Peas. Very short crop and prices will be high and peas scarce. Cannot quote prices, but will do so on request.

Cheat Seed. During the seeding season we carry a large stock at market prices.

Buckwheat (Japanese). The best and most profitable variety. Is earlier than the other varieties. Is excellent for bee pasture. Lb. 5c; 100 lbs. \$4.50.

Buckwheat (Silverhull). A very good and popular variety. Grain is of a light color, rounder than the common variety, thinner husk, earlier and yields more. Lb. 5c; 100 lbs. \$4.50.

Flax Seed. Recleaned for planting. Flax should be grown more as it is a profitable crop at the prices that it has been selling for the last few years. Lb. 10c; 100 lbs. market price.

Seed Rye. Rye is one of the most profitable crops in the grain line. It is a sure cropper and produces a good crop every season. Fine for pasture. Recleaned seed, \$2 per 100 lbs.

Dwarf Essex Rape. This great forage crop is becoming more popular every year. Yields an immense amount of green feed. Lb. 10c; 100 lbs. \$8.50.

Thousand Headed Kale. One of the most valuable forage crops for this valley ever introduced. It produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle, horses, poultry and hogs. Especially recommended for green feed during the dry summer and also during the cold weather of winter, as it is good at all times. Makes the most rapid growth if sown early in the spring, but can be sown in summer and fall for winter feed. Pkt. 5c; oz. 10c; lb. 50c by mail postpaid.

VEGETABLE PLANTS

Cabbage. Early and late varieties in season. Doz. 10c; 100, 50c.

Cauliflower. Early and late varieties in proper seasons. Doz. 15c; 100, \$1.00

Celery. All the principle varieties. Doz. 10c; 100, 50c.

Tomatoes. All the choice early and late varieties at the various seasons. Doz. 15c; 100, \$1.00.

Pepper Plants. Choice varieties. Dozen 25c.

Asparagus Roots. Good strong plants. Doz. 15c; 100, \$1.00.

We do not mail plants as we find that they will not arrive in good condition but send them by express, charges collect.

SEED POTATOES

On account of the market changes, we do not quote prices but will do so at any time on your request. We mention a few of the different varieties that we usually have in stock. When ready to buy, send for list and prices.

Early Ohio. The old standard variety that is hard to beat. A heavy producer of fine potatoes.

Early Rose. One of the best known early varieties grown here and does well on all kinds of land.

American Wonder. This is the new Early White Potato that is taking the market the last few years. A heavy yielder of choice potatoes.

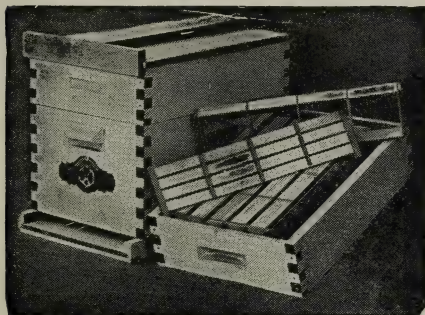
Early Sunrise. One of the extra early pink potatoes that gives universal satisfaction. Finely flavored and cooks mealy.

Burbanks. The old standby for the late market. One of the best potatoes ever grown anywhere. Brings the highest prices in the markets of the west and is a great cropper.

BEE SUPPLIES

Description and prices. Order by numbers. Five hives same rate as ten.

Dovetailed Pine Hives. No. 1. Dovetailed hive, complete with one super. Consists of one bottom board, one body, one super, one cover, eight Hoffman Brood Frames, one division board, six section holders, 24 sections and foundations started for frames, and sections and nails. Nailed, \$2.00 each; per 10, K. D. flat, \$18.00.



No. 2. Hive is the same as No. 1. less sections and foundation starters. Nailed \$1.80 each; per 10, K. D., flat, \$16.00.

Dovetailed Supers. No. 1. Pine or cedar complete, with sections, foundation starters. Nailed, each 90c; per 10, K. D., flat, \$8.00.

No. 2. Pine or cedar, less sections and starters. Nailed, each 70c; per 10, K. D., flat, \$6.00.

No. 0 Empty, pine or cedar. Nailed 40c; per 10, K. D. flat, \$3.50.

SECTION HONEY BOXES

Our No. 1 Sections are made of the choicest white basswood lumber, and are perfect in finish, and free from defects. They are not all snow white, but vary from that to a light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the consumer looks at. Price, per 100, 70c; 500, \$3; 1000, \$5.90.

Our No. 2 Sections, selected from our best grade sell at a price considerably less than our No. 1, and are correspondingly lower in quality. Most of them are equal to No. 1, except in color; some have dark spots, saw marks, or other blemishes which exclude them from No. 1 grade. Price, per 100, 65c; 500, \$2.85; 1000, \$5.50.

SECTION HOLDERS

Six section holders, with separators, one follower and wedge, are put in each super, and each holder holds four one-pound honey boxes. The bottom strip is $1\frac{1}{4}$ inches thick, and is cut out to fit insets of sections, $1\frac{7}{8} \times 18\frac{1}{4}$ inches, slotted, per 100, \$2.40. Bottoms only, $1\frac{7}{8}$ inches wide, slotted, per 100, \$1.25.

COMB FOUNDATION

Packed in 1, 2, 3 and 5-pound paper boxes, of 25 pounds in a case.

Light standard brood grade, 6 to 7 square feet per lb., price per lb. 65c

Light section grade, 11 to 12 square feet per lb., price per lb. 75c

If foundation is wanted by mail, add 16c per lb. up to two lbs. and 20c per lb. over 2 lbs.

HOFFMAN BROOD FRAMES

The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames out. The top bar is made with a beveled strip which holds the foundation absolutely in place, perfectly straight and exactly in center of top bar. Anyone can put foundation in these new frames very rapidly. Price, Hoffman Frames, per 10, 35c; per 100, \$3.00.

HIVE PARTS

Division Boards.....	Each, 10c; 10, 90c
Followers and Wedge.....	Each, 5c; 10, 35c
Tightening Springs.....	Each, 1c; 10, 8c

SEPARATORS

One separator should always be placed between each section holder so that the bees will build the honey comb even in each section. Slotted wood separators, $4\frac{1}{2} \times 18$, per 100, 75c.

BEE VEILS

Hat Veils. These veils have a rubber band around the top so as to fit the hat snugly. The lower end is bound, to prevent fraying. The kinds of material are given below Price list (postpaid):

No. 2 Veil, cotton tulle, with silk tulle face	\$0.55
No. 3 Veil, cotton tulle throughout.....	.40
Globe Veils, each	1.00

BEE KEEPER'S GLOVES

Rubber Gloves for the protection of the hands and wrists are almost indispensable in handling bees.

Rubber

	Each	By mail
Ladies', sizes 7, 8 and 9	\$1.20	\$1.30
Men's sizes 10, 11 and 12	1.25	1.35
Men's Half Long—		
Sizes 13, 14 and 15	1.50	1.60

BEE ENTRANCE GUARDS

Root's, or Tinker's. These are to admit workers and exclude drones. After the drones are all out, fix the guards over the entrance, and at night the drones can be destroyed. Price, 10c; by mail, 15c.

TINNED WIRE

No. 30. Per spool, 10c, postpaid.

BEE SMOKERS

Clark's Cold Blast. Probably the most popular smoker in use today is the Cold Blast, although many are now changing to the hot blast, claiming that they are more effective. The Clark is the best low-priced smoker. Price, 60c; by mail, 75c.

Improved Corneil. It is neat in appearance and does not topple over easy. Makes a good strong blast, with little work. Very substantial. Price, standard size, $3\frac{1}{4}$ inch, \$1.00; by mail, \$1.25.

A B C Bee Culture. For the veteran as well as the beginner. While the book is in a true sense an A B C of Bee Culture, in that it is adapted to the requirements of the beginners, no veteran, no matter how extensive his experience can afford to be without a work of this kind, containing as it does, a carefully prepared treatise on every late method of practice known to the business. 500 pages, \$1.35; postpaid, \$1.60.

OTHER BEE SUPPLIES

We handle a great many supplies not listed here, but will be glad to quote you prices at any time. Send us a list of what you want.

BROADCAST SEEDERS

Wheelbarrow Seeder. This is without any doubt, the most reliable seeder and most convenient seeder made. Mounted like a wheelbarrow and sows very accurate. Price, each, \$8.75.

Cahoun Seeder. The most popular and convenient hand machine on the market. Sows very accurate. Good for grain or grass seeds. Price, each, \$3.50.

Little Giant. The handiest small seeder on the market. Very convenient. Price, each, \$2.00.

PLANT SETTER

Master's. For planting cabbage, kale, celery, etc. With this little planter you can plant, water and fertilize ten thousand plants a day. Price, each, \$4.00.

BARRELS AND KEGS

We carry a complete stock, suitable for meat, fish, cider, vinegar, kraut, etc.

5 gallon keg.....\$.65	15 gallon keg.....\$1.25	30 gallon barrel.....\$1.60
10 gallon keg..... 1.00	20 gallon keg..... 1.40	50 gallon barrel..... 2.35

TRAPS

Reddick Mole Traps. The best trap for catching moles on the market. Each, 75c.



SURE DEATH TO
GOPHERS, SQUIRRELS, PRAIRIE DOGS,
RABBITS, RATS AND MICE.

GOPHERGO is a combination that **never fails** they are sure to get either the grain or the raisins. It has been tested and endorsed by the State Experimental Stations, and is sold in twenty-two States in 25c., 50c., \$1.00 cans and \$2.50 buckets by drug, seed and general stores everywhere. Ask your dealer for it; if he does not have it, we will advise him the nearest place to get it. Or write to us yourself, giving us your dealer's name, and we will send you our book, **"GROUND PESTS AND HOW TO EXTERMINATE THEM."** It will cost you nothing and save you money. **GOPHERGO IS READY FOR USE,** cheap and guaranteed to do the work or money refunded.

THE KNOX MANUFACTURING CO.
PASADENA, CAL.

THE CINCH POCKET GOPHER TRAP

The only safe and successful device for catching this pest. No dangerous gun; no ammunition. Easy to operate and when set properly is a "Cinch" sure enough. Any boy can clean the ranch with them. Will also catch moles, rats, etc. Price 75c, with scoop for opening holes. Sold several hundred of these traps the past season and they all gave fine satisfaction. Guaranteed to do the work or money back.

GOPHER GUNS

We have a safe and improved gun. Simple and easy to handle. Each, \$1.75.

CORN PLANTERS

Crescent. A two-handled planter; strong and durable. Price, \$1.00.

Rotary. Very accurate in planting. Price, \$1.50.

SQUIRREL POISON

We handle a reliable brand of squirrel poison that does the work. Can 25c.

FLY SPRAYS

So-Boss-So. This is one of the best things that we have ever sold. It keeps them off. Qt. 35c; gal. \$1.25.

Conkey's. We first introduced this the past season and it gave the very best of results. One of the best fly sprays we have handled. Qt. 35c; ½ gal. 60c; 1 gal. \$1.00.

SPRAYERS

Hand Sprayer. This is a little hand sprayer and is used to apply Lice Killers, Fly Sprays, Insecticides and other sprays where you use a light spray and do not have to throw the spray only a short distance. Heavy tin, 50 cents each; Brass, \$1.00 each.

BUCKET SPRAY PUMPS

We have a very handy and convenient sprayer that throws a good stream of spray for ten to twenty feet. Well made and if kept properly will last years. Fine for small trees, bushes, hen houses, etc. Price, \$3.75.

POTATO PLANTERS

Peerless. This is the lightest and best tubular planter made. With the planter one man can plant several times as much ground without getting a lame back as he can plant by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. Price, \$1.50.

SPRAY MATERIALS

We carry the largest stock of the most reliable spray materials in the city. You will find that our prices are the lowest that can be made on first class goods. You do not want to use anything but the best, as it is money thrown away to use poor spray materials.

Sulphur and Lime Solution. We handle the Dependable brand of spray, and can recommend it very highly. It is sold to conform with the state laws, and is guaranteed to test as marked. For winter spraying use one gallon of the spray to nine gallons of water. Ready to use. Prices, 1 gal. in bulk, 25c; with can, 30c; 5 gal. in bulk, \$1.00; with can, \$1.20; per barrel, \$8.50, with allowance of \$1.00 for return of barrel in good shape. If to be shipped in cans, allow 10c extra for one-gallon cans and 20c per 5 gallons for crating and packing.

Black Leaf 40. A highly concentrated tobacco extract, guaranteed to contain 40% nicotine. The best spray for Aphis and other soft bodied insects. $\frac{1}{2}$ lb. can makes 47 gallons .05% Nicotine, 85c; $2\frac{1}{2}$ -lb. can; makes 240 gallons .05% Nicotine, \$3.25. $10\frac{1}{2}$ -lb. can; makes 1000 gallons .05% Nicotine, \$12.50.

Nico-fume Liquid. A 40% Nicotine Solution for spraying or vaporizing. One to two teaspoonfuls of solution makes a gallon of spray. Cannot be mailed. $\frac{1}{4}$ pint 50c.

Arsenate of Lead. The best and latest insecticide for all leaf-eating insects, it will not burn the foliage, and stays on the trees longer than any other spray made. 1-lb. can, 25c; 2-lb. can, 40c; 5-lb. can, 85c; 10 lbs., \$1.50; 20 lbs., \$2.70; 50-lb. keg, \$5.50; 100-lb. keg, \$10.00.

Formalin. (Formaldehyde) For smut in wheat and oats; and for Potato Scab, per instructions contained in Crop Book. Pint, 50c.

Whale Oil Soap. An excellent summer wash for Aphis, etc. Lb. 20c; 25 lbs. \$2.

Tobacco Powder for Dusting. For destruction of Green Fly, Aphis, etc., where fumes cannot be confined. 1 lb., 10c; 10 lbs., 75c.

Sulphur. A good grade of sulphur for spraying, etc. Lb. 5c; 10 lbs. 40c; 100 lbs. \$2.50.

Refined Sulphur. For spraying grapes, etc. Lb. 5c; 10 lbs. 50c; 100 lbs. \$3.

Lime. The famous Roche Harbor Lime is the best grade on the market for all purposes. 10 lbs. 20c; 100 lbs. \$1.50; barrel, \$2.00.

Bluestone. The best grade for spraying. Lb. 10c; 100 lbs. \$8.00; subject to market.

Grafting Wax. $\frac{1}{4}$ -lb. bar, 10c; $\frac{1}{2}$ -lb. bar, 20c; 1 lb. 35c; postage, 18c per lb. extra.

Beeswax. Lb. 50c,

Rosin. Lb. 10c; 10 lbs. 75c.

Rose Spray. This is a tobacco spray, ready to mix with water for aphids, etc. In bottles, 25c each. Cannot be sent by mail.

Knoxweed. This is a great spray for killing all kinds of weeds like dandelion, plantain, etc. Comes in a can like an oil can and is ready to use. Price per can, 50c.

FERTILIZERS

Our stock of fertilizers is manufactured by one of the best and most reliable firms, and will run true to analysis. Special prices on quantity lots.

No. 1, General Fertilizer. An all-around fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops. Price, 100 lbs. \$2.00; per ton, \$38.00.

No. 4, Fruit. For all kinds of fruit, especially strawberries, blackberries, raspberries, etc. Price, 100 lbs. \$2.10; per ton, \$40.00.

No. 5, Lawn Dressing. The finest lawn fertilizer that you can get; 100 lbs. to the city lot. No weeds; all fertilizer. 10 lbs. 50c; 25 lbs. 85c; 50 lbs. \$1.35; 100 lbs. \$2.35.

Nitrate of Soda. For immediate results Nitrate of Soda is the very best; for stimulating and forcing the growth of plants and other crops. Per lb. 5c. 100 lbs. \$3.50.

Superphosphate. This is a concentrated form of phosphoric acid, and is the cheapest way to buy it. Per lb. 5c; 100 lbs. \$2.00.

Ground Bone. Pure bone, finely ground, is one of the best fertilizers. 10 lbs. 35c; 100 lbs. \$2.50.

Muriate of Potash. One of the most important fertilizing elements. Per lb. 5c; 100 lbs. \$3.50; 224-lb. sack, \$7.50.

Utah Land Plaster. Made from pure gypsum, free from clay or other foreign matter. Fine for clover, vetch, etc. 100 lbs. 75c; per ton, \$14.00.

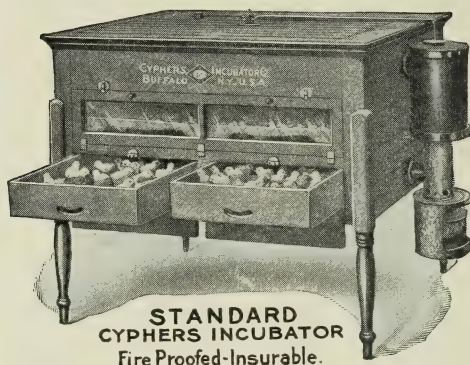
Hop and Onion Fertilizer. A fertilizer made especially for hops and onions; very rich in potash, and when used freely has been known to double the yield. 100 lbs. \$2.50; $\frac{1}{2}$ ton, \$22.00; ton, \$42.00: special prices on quantity lots and to outside points for direct shipment.

Fish Guano. Do not carry in stock, but will order at any time. 100 lbs. \$2.50; ton, \$45.00; subject to market changes.

Other Fertilizers. Any kind not listed above will be ordered at market prices at any time.

POULTRY SUPPLIES

We carry a complete line of modern poultry supplies, foods and remedies. With years of experience, we have selected only the best of the different lines on the market, and can offer you the best selected stock in the city.



Standard Cyphers Incubator

Made in four sizes

No. 0, 70 hen eggs, 56 duck eggs	\$16
No. 1, 144 hen eggs, 112 duck eggs	\$23
No. 2, 244 hen eggs, 200 duck eggs	\$33
No. 3, 390 hen eggs, 300 duck eggs	\$39

The above prices are f. o. b. Salem, Oregon.

The Cyphers Incubators and Brooders are acknowledged by all poultry experts to be the best made.

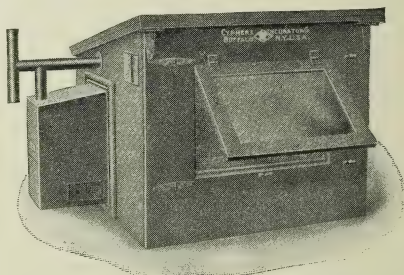
They have been on the market for years, and always give satisfaction. The best system of regulation, both of heat and ventilation. The guarantee is the best and most comprehensive put out by any company, and we stand back of it as well as the company. If you are thinking of getting an incubator, send for the large catalogue, it explains in detail the construction, operation, etc., in full, and also contains other valuable information.

Hovers and Brooders

Adaptable Hover. Price.....\$10.00.	Style A, Outdoor. Price.....\$15.00
Style B, Outdoor. Price.....	\$19.00

The above prices are f. o. b. Salem, Oregon.

Cyphers Incubator Company offers its customers for the season of 1913 a line of individual brooding apparatus that is as well constructed and as well adapted for the uses intended as are its Standard Incubators. They are not only fire-proof and insurable but are the best designed, the most durable, the most convenient, and the most efficient indoor and outdoor individual brooding devices thus far invented and placed on the market.



Cyphers Style A Outdoor Brooder

Insurable brooders, both outdoor and indoor, any one of which could be used anywhere, at any time, without objection on the part of the fire insurance companies and without danger to the property of the policy holding operator is what Cyphers Incubator Company offers its customers by the invention of the Fire-Proofed Brooder Heater and Standard Adaptable Hover, which is used in every Cyphers Company 1913 Brooder, and which bears the Fire Underwriters "Inspected Brooder" label.

All Cyphers Company Brooders, 1913 pattern, are built so that they can be shipped knock-down, compactly crated, thus insuring much lower freight rates to all points. With every brooder we furnish an illustrated circular of directions for setting it up.

QUEEN INCUBATORS

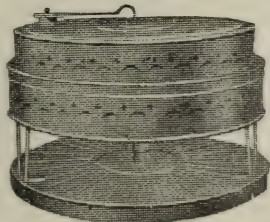


If you are looing for an incubator that will do the work, that is sold under a guarantee to be exactly as represented, and is sold for a moderate price, then buy the Queen Incubator. The Queen is the best value for the money that we have ever seen. It is well made, of durable material, and will last a long time. If you are interested, send for the large catalogue. It's free. The prices are as follows, f. o. b. Salem, Oregon, or we will quote you a special delivered price on receipt of your request: 70 egg size, \$12.50; 130 egg size, \$14.00; 180 egg size, \$18.00; 240 egg size, \$22.00; 360 egg size, \$27.50.

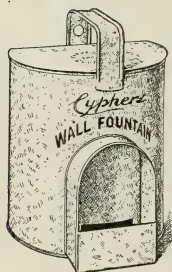
Cycle Incubators

This is the famous Philo System of Incubation, that has made such a reputation in the East the past two seasons.

It is a small metal hatcher holding 50 eggs. It uses about one gallon of oil to a hatch, and will run two weeks on one filling of the tank. Easy to operate and easy to regulate and seems to be very satisfactory to all that have used them. Price, Hatcher only, complete, \$6.50; special prices on lots of 5 or more; Combined Hatcher and Brooder, complete, \$8.50.



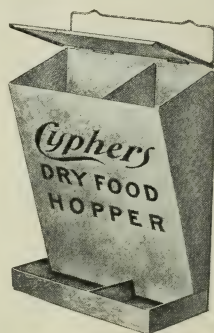
MISCELLANEOUS POULTRY SUPPLIES



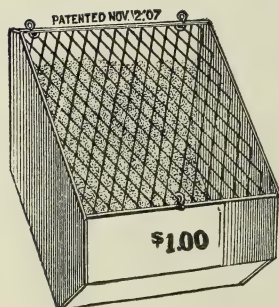
Cyphers Fountains. A handy two-piece fountain; low priced; easy to clean. Will last for many years. Quart size, 25c; 2-quart size, 35c; 1-gallon size, 50c; Duck Fountains, 60c.

Wall Fountains. One of the handiest fountains for both chickens and ducks made. Made to hang up against the wall or any post, and have a hood to protect the water from becoming dirty. Well made out of durable, galvanized iron. 1-gallon size, 60c; 2-gallon size, 75c.

Dry Food Hoppers—Cyphers. This is a food saving and labor saving device that soon pays for itself in the amount of feed saved. Well made out of durable material. They will last a life time with ordinary care. Hold about 6 quarts. Each, 75c.



Cyphers Grit & Shell Box. Similar to the Dry Food Hopper shown above, but containing three compartments. Most economical way of feeding bone, shell, grit, beef scraps, etc. Each 60c.



Boston Dry Food Hoppers. We believe that this hopper is the best device of the kind on sale for the thrifty, up-to-date poultry raisers. Boston Hoppers are made in four sizes, two for adult fowls and two for chicks. Prices, Large dry feed, holds $\frac{1}{2}$ bushel, \$1.00; beef scrap, etc., holds 1 peck, 90c;

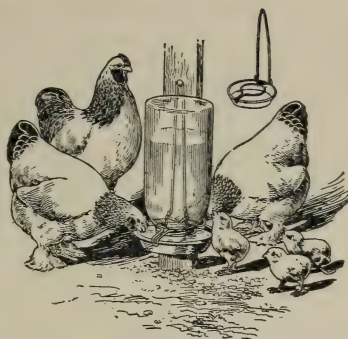
small chicken size, holds $\frac{1}{2}$ peck, \$1.00;
large chicken size, holds 1 peck, \$2.00.

All-Rite Fountains & Self Feeders.
The handiest fountain and feeder on the market. Uses a common Mason jar, either one or two quart size. Price, 20c each, or 6 for \$1.00.

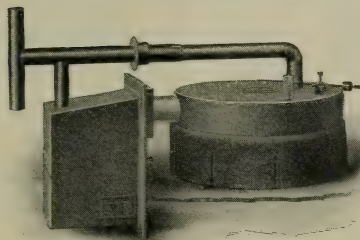
Wire Covered Feeding Troughs.
Very convenient for young chicks. Two sizes, small, 35c; medium, 40c; large, 60c.

Sanitary Stone Fountains. These are strong and well finished and made in two parts, and are easily kept clean. Half-gallons, 35c; gallon, 50c.

Egg Testers—X Ray. This is made to use on a lamp and fits a No. 2 burner. Each, 25c; by mail, 35c.



CYPHERS ADAPTABLE HOVER



Cyphers Company Adaptable Hover.

Patented, Fire-Proofed, Insurable,
Self-Ventilating and Self-Regulating.
Side view of Combined Fire-Proof
Heater and Standard Adaptable
Hover, ready for use.

Adapted for use anywhere that is suitable for confining or yarding chicks or ducklings.

Cyphers Adaptable Hover is self-ventilating and self-regulating—every one bearing the Fire Underwriters "Inspected Brooder" label; it is used in each of the four styles of individual brooders manufactured by the Cyphers Incubator Company for 1913. It is also intended to be used separately as a brooding device in colony coops, in Portable houses, and in home-made brooders such as goods boxes, piano boxes or organ cases, and can be adapted to other makes of brooders, provided they are twenty-six inches high and of fairly large dimensions otherwise.

Cyphers Company claims this Fire-Proof Brooder Heater & Standard Adaptable Hover is by far the best device of the kind invented thus far, and we invite the most searching comparison with all other brooder heating systems now on the market. It is only by such comparison that the exclusive features of the Cyphers Fire-Proof Brooder Heater and Standard Adaptable Hover can be fully appreciated. (See main catalogue for fully illustrated description.) Price of Cyphers Adaptable Hover, \$10.00.

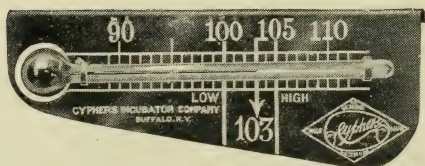
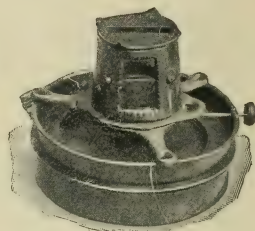
CYPHERS NEW PORTABLE HOVER

This hover is very similar to the one shown above but is arranged so that it may be picked up and carried any place about the yard.

It is self regulating, self ventilating and will not rust. Made entirely out of metal except the hover which is treated so that it is absolutely fireproof. The capacity is 75 newly hatched chicks or 50 from 10 days to six weeks old. It is arranged so that it is easy to operate and easy to clean. In fact, we believe that it will be the coming hover for both indoor and outdoor use either with a brooder case or alone. Price is \$10.00 F. O. B. Salem, Oregon.

CYPHERS SAFETY BROODER STOVE

The safety water pan on the Cyphers Safety Brooder Stove holds nearly a quart of water, and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water between the oil bowl and the flame jets. We have sold thousands of these to persons who build home-made brooders, and they give general satisfaction. Height, 7½ inches; greatest width, 10½ inches. Price of Cyphers Safety Brooder Stoves; each \$2.00.

INCUBATOR AND
BROODER SUPPLIES

Cyphers Tested Incubator Thermometers. The best that we know of. Each, 65c.

Brooder Thermometers. Tested. Each, 50c.

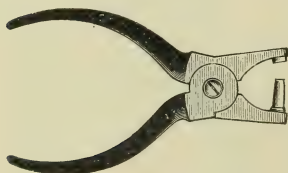
Cyphers Incubator Lamps. No. 0, with burner and wick, \$1.00; No. 1, 2 or 3, \$1.25 each. May also be used for brooders, if desired.

Incubator Lamp Burners. No. 0, each, 35c; No. 1, 50c; No. 2 and 3, 60c.

Oil for Incubators and Brooders. We carry the best oil for this purpose. Prices, 5-gallon can, \$1.30; case, 10 gallons, \$2.50; subject to market.

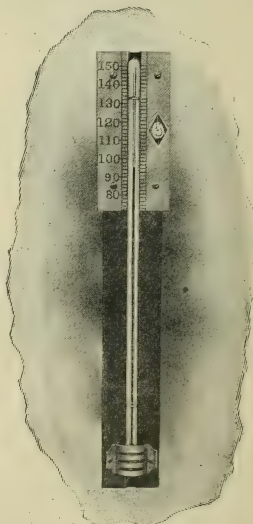
Wafer Regulators. Each, 75c.

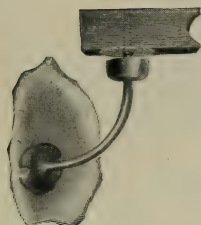
Lamp Wicks. Two for 5c; per dozen, 20c post-paid.

CYPHERS
POULTRY
MARKER

This punch is so simple in construction that it will appeal to all as a practical tool. It

makes a good, clear, clean cut, and does not mutilate the web, as do many cheaper punches. These punches are made expressly for us, and we guarantee them to meet all requirements. **Price of Cyphers Poultry Marker.....50c**



CYPHERS LICE-PROOF PERCH SUPPORT

Wall Perch Support.

THIS ALL-METAL ROOST SUPPORT was placed on the market by us to supply the demand for a support **sufficiently strong** to withstand the rough usage to which it is subjected, and is unequalled by any other similar device now in use. Thousands of them have been sold.

CYPHERS LICE-PROOF PERCH SUPPORTS are manufactured of cast iron and with ordinary care will last a life time. They are cheap in price, easily put up and if once tried will always be used. They are attached with screws. The oil cup is covered with a cap to prevent an accumulation of dust. Fill each cup with Cyphers Lice Paint **or with ordinary kerosene oil**. When the little cup contains the oil or lice paint, it is impossible for lice to pass from the walls of the building to the roosts, or

from the roosts to the building. **Prices of Wall Support:** Per pair, 35c; postpaid, 70c; per 1-2 dozen single hangers, \$1.05; per dozen single hangers, \$2.00.



Leg Bands. It pays to mark your chickens and keep track of the different stock, and also of the hens that lay. Several styles; send for list. Prices, dozen, 15c; 25 for 25c; 50 for 40c; 100 for 65c.

Wire Nests. The handiest and most convenient nest made. Easy to clean; gets rid of all vermin. Each, 25c; 5 for \$1.00.

The Success Automatic Trap. The best trap nest we have ever seen. No. 2, two nests, \$3.50; No. 3, three nests, \$5.00; No. 4, four nests, \$6.50.

Petty Chick Markers. Smaller than the above, but a favorite. Each, 25c.

Nest Eggs. Two for 5c; per dozen, 25c.

Medicated Nest Eggs. Used extensively as a lice killer. Each, 10c; 3 for 25c; per dozen, 75c.

Folding Egg Boxes. The best crate made for shipping eggs to be used for hatching purposes. Well made and will stand lots of knocking about. 15-egg size, 15c; 30-egg size, 25c; 50-egg size, 40c; special prices in dozen lots.

CHICK BOXES

These are a well made chick box for shipping day old chicks. They are well ventilated and chicks can be shipped anywhere in them. Used by all the poultry people that make a specialty of day old chicks as they find that the chicks arrive in better shape than when shipped in any other way. 25 chick size, 15c. 50 chick size, 25c. 100 chick size, 40c. Special prices in dozen lots or more.

BONE MILLS

Wilson Dry Bone Mills. This mill can be used for grinding dry bones, shells, old dishes, etc. Well made and durable. Price, \$5.50.

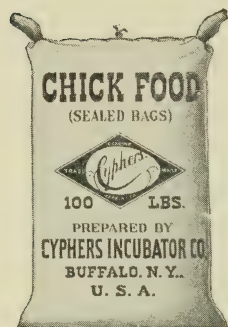
Mann Green Bone Mills. The favorite size of these well known mills is the No. 7. This is most popular mill sold and gives the very best of satisfaction. Price, \$15.00. We also sell all other sizes and will send you the large catalogue on request.

"HUMPTY DUMPTY"

The best, the cheapest, the most convenient **Egg Carrier**. The "Humpty Dumpty" is light but strong, being almost indestructible. Can be folded flat for shipping empty. The most satisfactory egg carrier. Holds 12 dozen. Price each, 60c.

CYPHER'S READY-MIXED BOULTRY FOODS

The Standard Food for Poultry of All Ages, for All Purposes—Special-ly Mixed and Balanced Chick Food, Developing Food, Laying Food, Scratching Food and Fattening and Finishing Food, Analyzed and Tested by Government Analysis and Guaranteed.



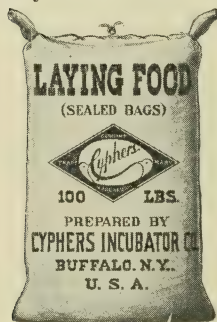
Cyphers Chick Food. A complete, scientifically compounded food for young chicks. This food consists of seven different grains, and is a properly balanced, long tested ration. It is complete for young chickens—no other grain ration being required or advisable. It contains no screenings or weed seed, and therefore no waste. Feed until the chick is about eight weeks old. Prices, 10 lbs. 30c; 25 lbs. 85c; 50 lbs. \$1.60; 100 lbs. \$3.00.

are found in the chick food. Prices, 10 lbs. 30c; 50 lbs. \$1.35; 100 lbs. \$2.50.

Cyphers Scratch Food. An idea grain mixture. Affords variety—promotes exercise. The best scratch feed on the market; no waste as all the fine seeds and cracked grain is screened out. 10 lbs. 30c; 50 lbs. \$1.35; 100 lbs. \$2.50.

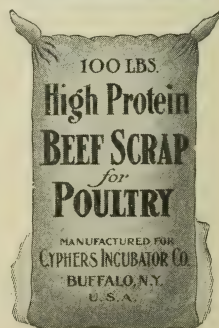
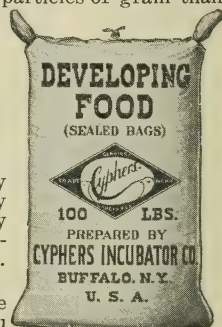
Cyphers Laying Food. A balanced ration, ready mixed for the daily mash. It is ready mixed with every ingredient necessary for layers. We guarantee that by the use of Cyphers Laying Food better results will be obtained than from any other laying food on the market. 10 lbs. 30c; 50 lbs. \$1.35; 100 lbs. \$2.60.

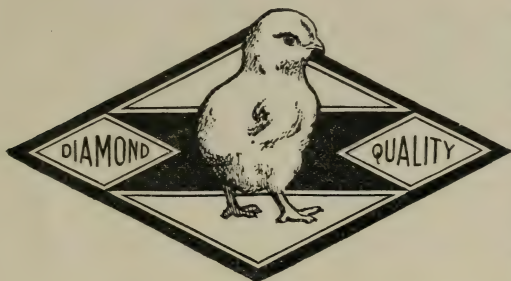
Cyphers Beef or Meat Meal. This is a high-grade meat meal product to mix with any mash feed that you may desire to feed. 10 lbs. 40c; 100 lbs. \$3.50.



Cyphers High-Grade Beef Scraps. High protein beef scraps is an invaluable meat food for domestic fowls. It should be fed sparingly to little chicks, the quantity to be increased as they grow older. To half grown and adult fowls it can be fed from the hopper with excellent results.

10 lbs. 50c; 25 lbs. \$1.10; 100 lbs. \$4.00.





DIAMOND CHICK FOOD

A Complete Balanced Ration that will make chicks grow and keep them healthy.

For Young Turkeys, Pheasants and all young fowls 'DIAMOND CHICK FOOD' is unexcelled. The only complete, safe and satisfactory food.

THE MAKING OF DIAMOND CHICK FOOD

The select grains that are used in the preparation of Diamond Chick Food are cut by a special process screened to a **uniform size** and **run through a Fanning Mill to remove the dust and meal**, which is the fatal element in most Chick Foods. After this process the ingredients are carefully weighed and mixed in correct proportions. **No guess work.**

By using Diamond Chick Food you are giving the chicks just **what Nature intended they should have**, a food composed of grains (cracked), small seeds, grit, bone, dried sweet meat (to take the place of insects and bugs), charcoal, etc., mixed in the right proportions to produce a quick and profitable growth without loss. It's so convenient, so handy, always ready for use, and you can raise so many more chicks by feeding it that it is the **cheapest food you can buy**. A trial is all we ask.

Ask for descriptive pamphlet or Directions for feeding in each sack or package.

Price 10 lbs. 35c; 25 lbs. 85c; 50 lbs. \$1.60; 100 lbs. \$3.00.

DIAMOND EGG FOOD

Makes hens lay when eggs are high; keeps poultry healthy. Unequaled for feeding young stock.

THE MOST SUCCESSFUL COMBINATION OF EGG PRODUCING ELEMENTS ever prepared, being a complete ground food for growing fowls and hens, encouraging rapid growth and increasing egg production. Can be fed dry or as a mash. Diamond Egg Food costs no more than other foods, and is of twice the feeding value. Price per lb. 3c; 50 lbs. \$1.25; 100 lbs. \$2.50.



DIAMOND SCRATCH FOOD

The most successful "up-to-now" ready-mixed complete

food. Makes hens sing, and singing hens lay. A perfect working ration for fowls. Grains, Grit, Shell, Beef, Bone and Charcoal carefully prepared in the correct proportion; a veritable "hen's" delight, and a great egg-producer. Price, per lb., 3c; 100 lbs. \$2.50.

Granulated Bone. Our bone is of the best quality and is something that should be kept before the chickens at all times. Best grade, 10 lbs. 35c; 100 lbs. \$3.00. Ordinary grade, 10 lbs. 30c; 100 lbs. \$2.75.

Beef Scraps. This is one of the most valuable feeds on the market to bring results. Is a great egg producer and also fine for growing chicks. Best grade, 10 lbs. 50c; 25 lbs. \$1.10; 100 lbs. \$4.00. Standard grade, 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$3.75.



Blood Meal. A very highly concentrated egg producer. Fine for young chicks. 1 lb. 10c; 10 lbs. 60c; 100 lbs. \$4.50.

Eastern Oyster Shells—Crushed. We offer good clean shells, free from dirt and waste. You should keep shells, before your hens at all times. In two sizes, poultry and chick. 10 lbs. 20c; 50 lbs. 75c; 100 lbs. \$1.25.

Soy Bean Meal. This is a great poultry food, containing a heavy per centage of protein. 10 lbs. 30c; 100 lbs. \$2.75.

Grit. Should be kept before your poultry at all times, as they must have "teeth." Our grit is good and hard, and is what they need. 10 lbs. 20c; 50 lbs. 75c; 100 lbs. \$1.25.

Charcoal. Made especially for poultry. Two sizes, chick and hen; lb. 10c; 10 lbs. 60c; 50 lbs. \$2.00.

Alfalfa Meal. Fine for winter feed. Supplies the green feed needed. 10 lbs. 20c; 100 lbs. \$1.25.

Poultry Pepper. Lb. 25c.

Grain for Feed. We handle all kinds of grain, wheat, oats, corn, barley, either whole, rolled or cracked as wanted.

Mill Feed. Always have in stock, bran, snorts, etc.

PRUSSIAN REMEDY CO'S STOCK AND POULTRY TONICS, ETC.

Prussian Stock Tonic. A standard stock tonic that gives universal satisfaction. Pkgs. 25c, 50c, \$1.00; 12½ lb. pails, \$1.75; 25 lb. pails, \$3.50.

Prussian Poultry Tonic. Makes hens lay, makes them pay; an excellent remedy for cholera and other diseases. Pkgs. 25 and 50c.

Prussian Heave Cure. This is a certain and sure cure for heaves if taken in time. If the horse is so far gone that it will not cure him it will improve and make him a great deal better. Guaranteed. 50c a pkg.

Prussian Cough and Distemper Cure. This is a sure cure for colds and distemper. Pkg. 50c.

Prussian Worm Powders. Guaranteed to cure all stock of worms. Pkg. 50c.

Prussian Calf Tonic. A scientific preparation for young stock. Takes the place of cows milk. Gives fine results. Pkg. 50c; 12 lb. pail, \$1.50.

Prussian Spavin Cure. A good remedy that will cure spavin. Bottle \$1.00.

Prussian Gall Cure. Work the horse while it cures. Pkg. 25 and 50c.

Prussian Barbed Wire Linament. For cuts, wounds, etc. Bottle 50c.

Prussian Lice Powder. A good strong powder that does the work. 25 and 50c pkg.

Prussian Cureine Salve. A good salve for sores, wounds, etc. 25c.

Prussian Vetinary Salve. Does the work. 25c pkg.

INTERNATIONAL STOCK AND POULTRY TONICS, ETC.

International Stock Tonic. One of the best on the market. Pkgs. 25, 50c and \$1.00; 25 lb. pail \$3.50.

International Worm Powders. A sure cure for worms in stock. 50c pkg.

International Heave Cure. One of the best heave cures on the market. 50c per pkg.

International Colic Cure. A sure cure for colic if given in time. 50c per bottle.

International Poultry Tonic. This well known article has been on the market for many years and gives good satisfaction. 25 and 50 cts. a pkg.

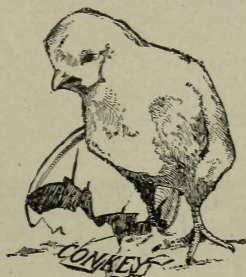
CONKEYS' CELEBRATED LINE OF POULTRY AND STOCK REMEDIES

Conkey's Stock Tonic. This is a great tonic for all kinds of stock and is well recommended. Pkgs. 25, 50c and \$1.00; 12 lb. pail, \$2.00; 25 lb. pail, \$3.50.

Conkey's Laying Tonic. Gives fine satisfaction. A great egg producer. Pkgs. 25c, 50c, \$1.00; 12 lb. pail, \$1.75.

Conkey's Lice Killer. Liquid. Guaranteed to kill 'em. Qt. 35c, $\frac{1}{2}$ gal. 60c.

Conkey's Lice Powder. One of the best powders we ever sold. Pkgs. 25 and 50c.



HATCHED RIGHT?

Look out now for that white, pasty symptom called **White Diarrhea**.

It may occur anytime from the 3rd day to the 4th week of the hatch. Incurable? Not now! We have **Conkey's White Diarrhea Remedy** this season, a new discovery. Saves chicks even badly affected. Better have a package, price 50c. Use it anyway, in the drinking water as a preventive. It's Chick insurance; why lose from 65 to 100 per cent of the hatch?

Roup Remedy. Pkg. 25 and 50c.
Cholera Remedy. Pkg. 25 and 50c.
Bronchitis Remedy. Pkg. 50c.
Chicken Pox Remedy. Pkg. 50c.
Poultry Worm Remedy. Pkg. 50c.
White Diarrhoea Remedy. Pkg. 50c.
Gape Remedy. Pkg. 50c.
Scaly Leg Remedy. Pkg. 50c.
Rheumatic Remedy. Pkg. 50c.
Poultry Neck. Pkg. 25c.
Limber Neck Remedy. Pkg. 50c.
Poultry Laxative. Pkg. 50c.

LEE'S POULTRY SUPPLIES

Lee's Lice Killer. Liquid. This is the best selling article on the market. Qt. 35c; $\frac{1}{2}$ gal. 60c; 1 gal. \$1.00.

Lee's Lice Powder. A good powder, especially for small chicks. 25c.

Lee's Egg Maker. A favorite tonic with many poultrymen. 25c pkg.

Lee's Germozone. The great remedy for roup and colds. Liquid, 50c a bottle. Tablets, 50c pkg. postpaid.

ZENOLEUM

The best disinfectant and germicide on the market. Recommended by all the Agricultural Colleges. Mix with water. Qt. can, 50c; gal; \$1.50

Zenoleum Lice Powder. A strong lice powder that every one says does the work. 25c pkg.

DAIRY ASSOCIATION GOODS

This is the best line of dairy remedies sold on the market and those who use any of their goods always continue to do so.

Kow Kure. This is the best known cow remedy on the market and it pays to use it. 50c and \$1.00 a can.

Garget Cure. A sure cure for garget. 50c a pkg.

Bag Balm. This is a great salve for udder troubles, caked bags, etc. 50c can.

DR. HESS'S FAMOUS REMEDIES

Dr. Hess's Stock Tonic. 2½ lbs. 30c; 7 lbs. 65c; 12 lbs. \$1.00; 25 lb. pail, \$2.25.

Poultry Pan-a-ce-a. 1½ lbs. 35c; 5 lbs. 85c.

Instant Louse Killer. Lb. pkg. 35c.

CYPHER'S LICE POWDER

One of the best lice powders to use on small chicks as it will not burn like some kinds do. 25c. pkg.

BLATCHFORD'S CALF MEAL

This is to be fed instead of milk and has been used for many years both in England and here. Gives good results. 25 lbs. \$1.25; 50 lbs. \$2.35.

GET THE KNACK

of dusting for chicken lice—same as Millie has it. Notice she's got a package of Conkey's Lice Powder? We'll sell the same to you on **guarantee.**

You never used a better. Conkey's Lice Powder kills body lice, not merely scaring, chasing or stunning. Itching, scratching, lousy hens can't make profit for you. Get a 25c pkg. (15 oz.) or a 50c pkg. (48 oz.) **Your hens will pay for it.** We sell on guarantee—money back if your fowls aren't rid of body lice after you try the Conkey way.



BIGGER POULTRY PROFITS



It's no disgrace if your fowls get lousy—but it is a shame to let them **STAY LOUSY!** Don't fool with home-made stuff, or waste time trying unknown dopes. **GET QUICK AND SURE RESULTS** by using

CONKEY'S LICE POWDER

25 cents buys a good, liberal-sized box. It is **positive death** to lice, ticks, etc. Equally effective for lice on setting hens and young chicks. **GETS THEM ALL!** Cleans up the coop! Absolutely harmless to even the smallest chick. Easy to apply and does the **business** of your money back. Get a package today.



How to Cure GAPES

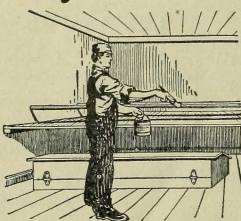


Kill the gape worm which sucks the life blood from the throats of little chicks and tends to strangle them by using **Conkey's Gape Cure.** Kills worms. Makes chicks healthy. In powdered form, it is mixed with soft feed. You do not have to handle the birds.

CONKEY'S GAPE CURE

works where fumes, smoke, extractors and horse hairs fail. It reaches the worm through the fowl's blood—the only sure way. Use it if your fowls show any symptoms of gapes. Prevents as well as cures. A life-saver. This means dollars to you.

Any Mites in Your Poultry House?



Go after them right with **Conkey's Lice Liquid.** That will fix them. It drowns them out in the

cracks, where they breed and thrive and hide away through the day until the fowls come back to roost at night. Get into old clothes and with a sprayer or sprinkling can full of Conkey's Lice Liquid, go over the whole place and paint the roosts with the same stuff. Try this. We guarantee it effective. Conkey's Lice Liquid 35c qt.; 60c 2 qts.; \$1.00 a gallon.

WEIGHT OF VARIOUS ARTICLES PER BUSHEL

	Lbs.		Lbs.		Lbs.
Flax Seed	56	Peas, Smooth	60	Wheat	60
Charcoal	22	Peach Pits	48	Vetches	70
Corn, Shelled	56	Orchard Grass	14	Timothy	45
Clover Seed	60	Onion Sets	32	Speltz	40
Cheat	32	Oats	32	Red Top, solid seed	42
Canary Seed	60	Millet	50	Red Top	14
English	24	Meadow Fescue	24	Rye	56
Kentucky	14	Lawn Grass	20	Rope	60
Blue Grass—		Hungarian	48	Potatoes	60
Buckwheat	48	Hemp Seed	14	Perennial Rye	20
Beans	60	Grass Seed (unless		Peas, Wrinkled	56
Barley	48	otherwise stated)	14		

QUANTITY OF SEED TO PRODUCE A GIVEN NUMBER OF PLANTS AND SOW AN ACRE

	Per acre		Per acre
Artichoke, 1 oz to 500 plants	6 oz	Fowl Meadow, Wood Meadow	2 bu
Asparagus, 1 oz to 800 plants	1 lb	Horseradish roots	10,000 to 15,000
Asparagus roots	5000 to 10,000	Kale, 1 oz to 2000 plants	2 oz
Barley	2 to 2½ bu	Kaffir Corn, in drills	6 to 8 lb
Beans, dwarf, 1 lb to 100 ft drill, 1 bu		Kohl Rabbi, 1 oz to 2000 plants	4 oz
Beans, pole, 1 lb to 100 hills	½ bu	Leek, 1 oz to 100 ft of drill	4 lb
Beet, garden, 1 oz to 100 ft drill	7 lb	Lettuce, 1 oz to 150 ft of drill	3 lb
Beet mangel, 1 oz to 75 ft drill	5 lb	Millet, for seed	20 lb
Broccoli, 1 oz to 2000 plants	4 oz	Millet, for hay	30 lb
Brussels Sprouts, 1 oz to 2000 plants	4 oz	Melon, Musk, 2 oz to 100 hills	2 to 3 lb
		Melon, Water, 4 oz to 100 hills	3 to 4 lb
Broom corn, in drills	15 lb	Oats	2 to 3 bu
Buckwheat	½ to 1 bu	Okra, 1 oz to 100 ft of drill	8 lb
Cabbage, 1 oz to 2000 plants	4 oz	Onion Seed, for sets	60 to 85 lb
Carrot, ½ oz to 100 ft of drill	3 lb	Onion, 1 oz to 150 ft of drill	3 to 4 lb
Cauliflower, 1 oz to 3000 plants	3 oz	Onion Sets, 1 qt to 40 ft of drill	8 bu
Celery, 1 oz to 5000 plants	4 oz	Parsnips, 1 oz to 150 ft of drill	3 lb
Cheat	2 bu	Parsley, 1 oz to 150 ft of drill	3 lb
Chicory	4 bu	Peas, Field	2 bu
Clover, Alsike and White	8 to 10 lb	Peas, Garden, 1 lb to 100 ft of drill	
Clover, Alfalfa	15 to 20 lb		1 to 2 bu
Clover, Crimson Trefoil	10 to 15 lb	Pepper	1 oz to 1000 plants
Clover, Red	10 to 12 lb	Pumpkin, ½ lb to 100 hills	3 to 4 lb
Collards, 1 oz to 2000 plants	4 oz	Radish, 1 oz to 100 ft of drill	10 lb
Corn, Pop (shelled)	8 to 10 lb	Rape	3 to 5 bu
Corn, Sweet or Field, hills	12 to 20 bu	Rye	1½ to 2 bu
Corn, for soiling, drills	2 bu	Salsify, 1 oz to 100 ft of drill	6 lb
Cress, ¾ oz to 100 ft of drill	1 lb	Speltz	100 lb
Cucumbers, 1 oz to 100 hills	2 to 3 lb	Spinach, 1 oz to 100 ft of drill	8 lb
Egg Plant, 1 oz to 2000 plants	4 oz	Sugar Cane, in drills	10 lb
Endive, ¼ oz to 100 ft of drill	4 lb	Sunflower	8 lb
Flax, broadcast	¾ bu	Squash, Summer, 4 oz to 100 hills	3 lb
Grass, Blue, Kentucky	2 bu	Squash, Winter, 8 oz to 100 hills	4 lb
Grass, Meadow Fescue	1 bu	Tomato, 1 oz to 2000 plants	4 oz
Grass, Mixed Lawn	5 to 6 bu	Tobacco, 1 oz to 4000 plants	3 oz
Grass, Red Top, chaff	2 bu	Turnip, 1 oz to 150 ft drill	2 to 3 lb
Grass, Red Top, solid seed	12 to 15 lb	Vetch	1½ to 2 bu
Grass, Timothy	12 to 15 lb	Vetch with grain	1 bu
Grass, Orchard, Perennial, Rye,		Wheat	1½ to 2 bu

*Everything in the
Poultry Supply Line*

Elliott, Printer, Salem.

